

ภาคผนวก ข

ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ข-1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Lot ID: 2432162

Date Received : Apr 10, 2024

Date Reported : Apr 23, 2024

Report Number: 2943390-1C2

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Page 1 of 1

Sample Description	Air Quality			
Location	จุดสุ่มเก็บอากาศ (หอกลั่นน้ำมัน) (รหัส 47P 0736529E, 1411273N)			
Date Analysis Commenced	Apr 11, 2024			
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2432162-1	Apr 02 - Apr 03, 2024	0.048	756	33
2432162-2	Apr 03 - Apr 04, 2024	0.044	756	33
2432162-3	Apr 04 - Apr 05, 2024	0.057	756	34
2432162-4	Apr 05 - Apr 06, 2024	0.065	756	34
2432162-5	Apr 06 - Apr 07, 2024	0.040	756	35
2432162-6	Apr 07 - Apr 08, 2024	0.058	756	35
2432162-7	Apr 08 - Apr 09, 2024	0.049	756	33
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Chatchai Sukpia

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7899-42 / EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 2432162

Date Received : Apr 10, 2024

Date Reported : Apr 23, 2024

Report Number: 2943390-2C2

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : 5002224246

Project Name : Environmental Monitoring

Project Location :

Page 1 of 1

Sample Description	Air Quality			
Location	จุดสุ่มเก็บอากาศ (GPS 47P 0734578, 1408535)			
Date Analysis Commenced	Apr 11, 2024			
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag			
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2432162-8	Apr 02 - Apr 03, 2024	0.033	756	33
2432162-9	Apr 03 - Apr 04, 2024	0.036	756	33
2432162-10	Apr 04 - Apr 05, 2024	0.039	756	34
2432162-11	Apr 05 - Apr 06, 2024	0.047	756	34
2432162-12	Apr 06 - Apr 07, 2024	0.037	756	35
2432162-13	Apr 07 - Apr 08, 2024	0.047	756	35
2432162-14	Apr 08 - Apr 09, 2024	0.037	756	33
Guideline		0.33	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Chatchai Sukpia

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7899-42 / EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 2432162

Date Received : Apr 10, 2024

Date Reported : Apr 23, 2024

Report Number: 2943390-3C2

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : 500224246

Project Name : Environmental Monitoring

Project Location :

Page 1 of 1

Sample Description Air Quality
Location กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced Apr 11, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2432162-15	Apr 02 - Apr 03, 2024	0.052	756	33
2432162-16	Apr 03 - Apr 04, 2024	0.038	756	33
2432162-17	Apr 04 - Apr 05, 2024	0.041	756	34
2432162-18	Apr 05 - Apr 06, 2024	0.044	756	34
2432162-19	Apr 06 - Apr 07, 2024	0.041	756	35
2432162-20	Apr 07 - Apr 08, 2024	0.045	756	35
2432162-21	Apr 08 - Apr 09, 2024	0.033	756	33

Guideline 0.33

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Chatchai Sukpia

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanita K.

Thanita Kulsumwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432147

Date Received : Apr 10, 2024

Date Reported : Apr 19, 2024

Report Number: 2943423-1C2

Page 1 of 1

Sample Description Air Quality
Location กรุงเทพมหานคร (พิกัด 47P 0736529E, 1411273N)
Parameter Nitrogen dioxide (ppm)
Measurement Date Apr 02, 2024 - Apr 09, 2024
Measurement by Panuwat Wangbong

	2432147-1 Apr 02, 2024	2432147-2 Apr 03, 2024	2432147-3 Apr 04, 2024	2432147-4 Apr 05, 2024	2432147-5 Apr 06, 2024	2432147-6 Apr 07, 2024	2432147-7 Apr 08, 2024
Time							
09:00 AM - 10:00 AM	0.001	0.005	0.007	0.007	0.007	0.005	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.005	0.006
11:00 AM - 12:00 PM	0.004	0.004	0.007	0.005	0.004	0.002	0.003
12:00 PM - 01:00 PM	0.003	0.007	0.009	0.004	0.005	0.002	0.005
01:00 PM - 02:00 PM	0.004	0.004	0.005	0.006	0.004	0.004	0.006
02:00 PM - 03:00 PM	0.005	0.005	0.005	0.006	0.006	0.005	0.004
03:00 PM - 04:00 PM	0.002	0.003	0.004	0.009	0.006	0.003	0.004
04:00 PM - 05:00 PM	0.003	0.005	0.005	0.007	0.004	0.006	0.005
05:00 PM - 06:00 PM	0.006	0.007	0.006	0.006	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.005	0.002	0.003	0.005	0.005	0.004
07:00 PM - 08:00 PM	0.003	0.006	0.004	0.005	0.004	0.006	0.005
08:00 PM - 09:00 PM	0.004	0.007	0.004	0.004	0.002	0.008	0.004
09:00 PM - 10:00 PM	0.004	0.008	0.007	0.004	0.004	0.004	0.006
10:00 PM - 11:00 PM	0.002	0.002	0.003	0.003	0.002	0.008	0.004
11:00 PM - 12:00 AM	0.005	0.003	0.002	0.003	0.002	0.004	0.006
12:00 AM - 01:00 AM	0.005	0.006	0.004	0.004	0.003	0.006	0.008
01:00 AM - 02:00 AM	0.004	0.003	0.003	0.002	0.003	0.006	0.005
02:00 AM - 03:00 AM	0.004	0.005	0.003	0.003	0.004	0.006	0.005
03:00 AM - 04:00 AM	0.003	0.006	0.006	0.005	0.005	0.006	0.003
04:00 AM - 05:00 AM	0.005	0.006	0.004	0.005	0.004	0.004	0.006
05:00 AM - 06:00 AM	0.006	0.005	0.005	0.004	0.005	0.003	0.005
06:00 AM - 07:00 AM	0.006	0.008	0.007	0.004	0.004	0.005	0.005
07:00 AM - 08:00 AM	0.004	0.005	0.005	0.005	0.001	0.003	0.004
08:00 AM - 09:00 AM	0.004	0.005	0.004	0.005	0.003	0.004	0.004
Average	0.004	0.005	0.005	0.005	0.004	0.005	0.005
1hr - Maximum	0.006	0.008	0.009	0.009	0.007	0.008	0.008
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakhyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432147

Date Received : Apr 10, 2024
Date Reported : Apr 19, 2024
Report Number: 2967955-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	พื้นที่วัดอากาศ (พิกัด 47P 0734578, 1408535)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Apr 02, 2024 - Apr 09, 2024						
Measurement by	Panuwat Wangbong						
Time	2432147-8 Apr 02, 2024	2432147-9 Apr 03, 2024	2432147-10 Apr 04, 2024	2432147-11 Apr 05, 2024	2432147-12 Apr 06, 2024	2432147-13 Apr 07, 2024	2432147-14 Apr 08, 2024
10:00 AM - 11:00 AM	0.009	0.011	0.004	0.006	0.002	0.013	0.004
11:00 AM - 12:00 PM	0.005	0.006	0.015	0.010	0.002	0.013	0.003
12:00 PM - 01:00 PM	0.008	0.010	0.008	0.004	0.002	0.014	0.009
01:00 PM - 02:00 PM	0.009	0.011	0.008	0.005	0.010	0.009	0.010
02:00 PM - 03:00 PM	0.003	0.009	0.011	0.005	0.008	0.003	0.010
03:00 PM - 04:00 PM	0.003	0.012	0.009	0.010	0.008	0.006	0.007
04:00 PM - 05:00 PM	0.002	0.011	0.006	0.007	0.004	0.006	0.006
05:00 PM - 06:00 PM	0.002	0.006	0.005	0.010	0.005	0.009	0.009
06:00 PM - 07:00 PM	0.003	0.007	0.010	0.008	0.009	0.009	0.004
07:00 PM - 08:00 PM	0.006	0.012	0.004	0.005	0.008	0.006	0.008
08:00 PM - 09:00 PM	0.008	0.008	0.012	0.005	0.009	0.010	0.007
09:00 PM - 10:00 PM	0.009	0.006	0.011	0.006	0.010	0.007	0.006
10:00 PM - 11:00 PM	0.003	0.009	0.011	0.008	0.008	0.010	0.010
11:00 PM - 12:00 AM	0.002	0.008	0.008	0.006	0.006	0.009	0.008
12:00 AM - 01:00 AM	0.002	0.006	0.008	0.005	0.003	0.009	0.007
01:00 AM - 02:00 AM	0.006	0.006	0.008	0.010	0.004	0.008	0.009
02:00 AM - 03:00 AM	0.011	0.002	0.005	0.002	0.002	0.008	0.008
03:00 AM - 04:00 AM	0.013	0.003	0.006	0.002	0.003	0.008	0.006
04:00 AM - 05:00 AM	0.011	0.003	0.007	0.004	0.003	0.010	0.010
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.010	0.005	0.007	0.005
06:00 AM - 07:00 AM	0.004	0.003	0.004	0.011	0.008	0.007	0.003
07:00 AM - 08:00 AM	0.009	0.013	0.004	0.005	0.013	0.007	0.004
08:00 AM - 09:00 AM	0.012	0.011	0.004	0.002	0.012	0.006	0.004
09:00 AM - 10:00 AM	0.008	0.011	0.005	0.002	0.011	0.007	0.003
Average	0.006	0.008	0.007	0.006	0.006	0.009	0.007
1hr - Maximum	0.013	0.013	0.015	0.011	0.013	0.014	0.010
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyoung
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

7899-42 (EMAS)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432147

Date Received : Apr 10, 2024
Date Reported : Apr 19, 2024
Report Number: 2967957-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	พื้นที่วัดอากาศ (พิกัด 47P 0735259E, 1408966N)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Apr 02, 2024 - Apr 09, 2024						
Measurement by	Panuwat Wangbong						
Time	2432147-15 Apr 02, 2024	2432147-16 Apr 03, 2024	2432147-17 Apr 04, 2024	2432147-18 Apr 05, 2024	2432147-19 Apr 06, 2024	2432147-20 Apr 07, 2024	2432147-21 Apr 08, 2024
11:00 AM - 12:00 PM	0.007	0.004	0.007	0.003	0.002	0.007	0.007
12:00 PM - 01:00 PM	0.003	0.005	0.009	0.002	0.007	0.004	0.008
01:00 PM - 02:00 PM	0.005	0.004	0.009	0.004	0.007	0.003	0.007
02:00 PM - 03:00 PM	0.006	0.003	0.007	0.009	0.004	0.005	0.005
03:00 PM - 04:00 PM	0.004	0.003	0.004	0.006	0.004	0.005	0.007
04:00 PM - 05:00 PM	0.004	0.003	0.004	0.007	0.008	0.007	0.007
05:00 PM - 06:00 PM	0.005	0.005	0.005	0.006	0.007	0.007	0.004
06:00 PM - 07:00 PM	0.006	0.006	0.006	0.006	0.008	0.009	0.006
07:00 PM - 08:00 PM	0.006	0.006	0.007	0.008	0.007	0.008	0.008
08:00 PM - 09:00 PM	0.006	0.006	0.006	0.007	0.010	0.008	0.007
09:00 PM - 10:00 PM	0.005	0.006	0.004	0.005	0.008	0.008	0.007
10:00 PM - 11:00 PM	0.004	0.005	0.004	0.004	0.009	0.006	0.005
11:00 PM - 12:00 AM	0.008	0.004	0.008	0.003	0.004	0.007	0.005
12:00 AM - 01:00 AM	0.007	0.003	0.008	0.003	0.004	0.008	0.006
01:00 AM - 02:00 AM	0.006	0.004	0.004	0.002	0.002	0.007	0.007
02:00 AM - 03:00 AM	0.007	0.004	0.003	0.002	0.002	0.008	0.006
03:00 AM - 04:00 AM	0.007	0.006	0.003	0.002	0.002	0.003	0.004
04:00 AM - 05:00 AM	0.009	0.006	0.003	0.002	0.003	0.008	0.005
05:00 AM - 06:00 AM	0.006	0.004	0.004	0.003	0.004	0.007	0.007
06:00 AM - 07:00 AM	0.008	0.006	0.006	0.006	0.006	0.009	0.010
07:00 AM - 08:00 AM	0.006	0.006	0.008	0.008	0.006	0.005	0.008
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.007	0.008	0.004	0.005
09:00 AM - 10:00 AM	0.004	0.004	0.003	0.004	0.005	0.007	0.007
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.007
Average	0.005	0.005	0.005	0.005	0.005	0.006	0.006
1hr - Maximum	0.009	0.006	0.009	0.009	0.010	0.009	0.010
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Orawan R.

Orawan Rakyoung
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

7899-42 (EMAS)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432153
Date Received : Apr 10, 2024
Date Reported : Apr 19, 2024
Report Number: 2943416-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	จุดตรวจคุณภาพอากาศ (หมู่บ้านหนองเตา) (พิกัด 47P 0736529E, 1411273N)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Apr 02, 2024 - Apr 10, 2024						
Measurement by	Panuwat Wangbong						
Time	2432153-1 Apr 02, 2024	2432153-2 Apr 03, 2024	2432153-3 Apr 04, 2024	2432153-4 Apr 05, 2024	2432153-5 Apr 07, 2024	2432153-6 Apr 08, 2024	2432153-7 Apr 09, 2024
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.004	0.003	0.004	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.004	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.004	0.003	0.004	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.004	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.004	0.004	0.003	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. All part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reprinted or used in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

7899-42 (MAL)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432153
Date Received : Apr 10, 2024
Date Reported : Apr 19, 2024
Report Number: 2967962-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	จุดตรวจคุณภาพอากาศ (พิกัด 47P 0734578, 1408535)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Apr 02, 2024 - Apr 10, 2024						
Measurement by	Panuwat Wangbong						
Time	2432153-8 Apr 02, 2024	2432153-9 Apr 03, 2024	2432153-10 Apr 04, 2024	2432153-11 Apr 05, 2024	2432153-12 Apr 07, 2024	2432153-13 Apr 08, 2024	2432153-14 Apr 09, 2024
10:00 AM - 11:00 AM	0.004	0.004	0.003	0.004	0.004	0.003	0.004
11:00 AM - 12:00 PM	0.004	0.003	0.004	0.004	0.004	0.003	0.004
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.004	0.003	0.004
01:00 PM - 02:00 PM	0.004	0.004	0.003	0.004	0.004	0.003	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.003	0.004	0.004	0.003	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.003	0.004	0.004	0.003	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.003	0.004	0.004	0.003	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.004	0.003	0.004	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.004	0.003	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.003	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.003	0.004	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.003	0.004	0.003	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.003	0.004	0.003	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.003	0.004	0.003	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.004	0.003	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.003	0.003	0.004	0.003	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.003	0.003	0.004	0.003	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.003	0.003	0.004	0.003	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.003	0.004	0.004	0.003	0.004	0.004
Average	0.004	0.004	0.003	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. All part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reprinted or used in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

7899-42 (MAL)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432153

Date Received : Apr 10, 2024
Date Reported : Apr 19, 2024
Report Number: 2967963-1C2

Page 1 of 1

Sample Description	Air Quality						
Location	ชุมชนบ้านนา (พิกัด 47P 0735259E, 1408966N)						
Parameter	Sulfur Dioxide (ppm)						
Measurement Date	Apr 02, 2024 - Apr 10, 2024						
Measurement by	Panuwat Wangbong						
Time	2432153-15 Apr 02, 2024	2432153-16 Apr 03, 2024	2432153-17 Apr 04, 2024	2432153-18 Apr 05, 2024	2432153-19 Apr 07, 2024	2432153-20 Apr 08, 2024	2432153-21 Apr 09, 2024
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.002	0.002	0.002	0.002	0.002	0.002
1hr - Maximum	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Orawan R.
Orawan Rakyoung
Scientist (3)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

7899-0215M01



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432154

Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number : 2943405-1 C2

Page 1 of 2

Sample Number : 2432154-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ชุมชนบ้านนา (พิกัด 47P 0736529 E, 1411273 N)
Sampling Date : Apr 02 - Apr 09, 2024
Sampling by : Panuwat Wangbong

Time	Apr 02 - Apr 03, 2024		Apr 03 - Apr 04, 2024		Apr 04 - Apr 05, 2024		Apr 05 - Apr 06, 2024		Apr 06 - Apr 07, 2024		Apr 07 - Apr 08, 2024		Apr 08 - Apr 09, 2024	
	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
09:00 AM - 10:00 AM	3.3	253.0	WSW	2.1	233.0	SW	2.7	240.0	WSW	1.6	226.0	SW	2.1	216.0
10:00 AM - 11:00 AM	2.7	206.0	SSW	2.6	167.0	SSE	3.5	190.0	S	1.9	189.0	S	1.9	218.0
11:00 AM - 12:00 PM	2.4	232.0	SW	3.1	208.0	SSW	3.1	230.0	SW	2.6	222.0	SW	1.4	254.0
12:00 PM - 01:00 PM	3.5	228.0	SW	1.9	206.0	SSW	2.9	238.0	WSW	4.1	200.0	SSW	1.3	240.0
01:00 PM - 02:00 PM	2.5	223.0	SW	1.6	222.0	SW	2.4	200.0	SSW	3.5	212.0	SSW	2.6	189.0
02:00 PM - 03:00 PM	4.6	227.0	SW	1.9	210.0	SSW	2.6	222.0	SW	1.6	204.0	SSW	3.1	226.0
03:00 PM - 04:00 PM	3.1	229.0	SW	2.5	222.0	SW	1.3	206.0	SSW	3.2	229.0	SW	3.7	215.0
04:00 PM - 05:00 PM	2.9	225.0	SW	2.6	194.0	SSW	1.8	227.0	SW	1.9	211.0	SSW	4.2	217.0
05:00 PM - 06:00 PM	2.2	204.0	SSW	3.4	223.0	SW	2.6	227.0	SW	1.1	222.0	SW	2.4	216.0
06:00 PM - 07:00 PM	1.2	206.0	SSW	3.8	204.0	SSW	2.3	215.0	SW	1.8	203.0	SSW	1.8	204.0
07:00 PM - 08:00 PM	2.5	207.0	SSW	2.7	228.0	SW	2.8	229.0	SW	2.4	213.0	SSW	2.1	206.0
08:00 PM - 09:00 PM	1.1	205.0	SSW	1.6	205.0	SSW	3.4	216.0	SW	2.6	211.0	SSW	2.0	215.0
09:00 PM - 10:00 PM	0.8	217.0	SW	2.3	220.0	SW	2.1	217.0	SW	1.3	201.0	SSW	1.7	210.0
10:00 PM - 11:00 PM	1.4	233.0	SW	2.5	216.0	SW	1.9	213.0	SSW	1.9	226.0	SW	1.3	207.0
11:00 PM - 12:00 AM	2.8	227.0	SW	1.9	229.0	SW	1.0	223.0	SW	1.2	209.0	SSW	2.6	217.0
12:00 AM - 01:00 AM	1.5	203.0	SSW	2.1	210.0	SSW	2.1	232.0	SW	2.0	220.0	SW	1.9	219.0
01:00 AM - 02:00 AM	1.3	211.0	SSW	1.7	210.0	SSW	2.8	200.0	SSW	2.1	197.0	SSW	1.3	213.0
02:00 AM - 03:00 AM	1.0	213.0	SSW	1.3	207.0	SSW	2.6	200.0	SSW	1.7	220.0	SW	2.5	198.0
03:00 AM - 04:00 AM	2.4	206.0	SSW	0.8	233.0	SW	1.9	222.0	SW	2.9	198.0	SSW	1.1	208.0
04:00 AM - 05:00 AM	2.3	205.0	SSW	1.5	200.0	SSW	4.2	215.0	SW	2.1	216.0	SW	2.1	208.0
05:00 AM - 06:00 AM	3.2	210.0	SSW	1.7	195.0	SSW	3.1	216.0	SW	1.3	225.0	SW	2.8	213.0
06:00 AM - 07:00 AM	3.6	222.0	SW	1.3	222.0	SW	3.5	180.0	S	2.6	213.0	SSW	2.4	221.0
07:00 AM - 08:00 AM	2.1	229.0	SW	1.9	182.0	S	3.8	201.0	SSW	2.7	228.0	SW	1.3	229.0
08:00 AM - 09:00 AM	2.8	191.0	S	2.3	219.0	SW	2.4	210.0	SSW	2.6	224.0	SW	2.0	198.0

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) P.O. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

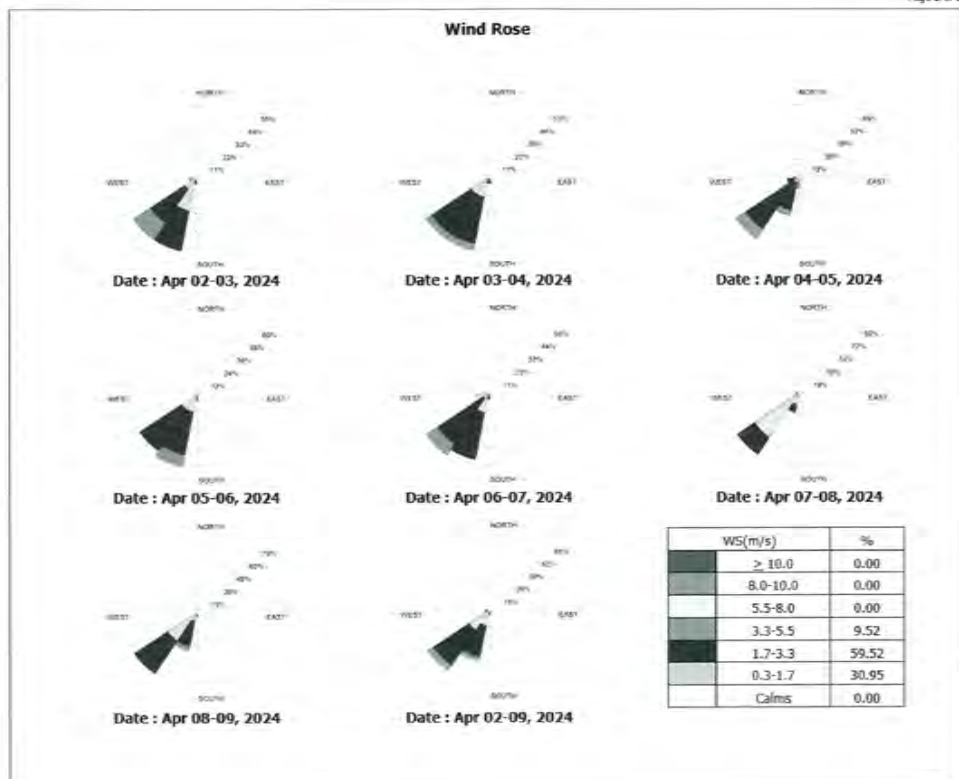
Lot ID: 2432154

Date Received :Apr 10, 2024

Date Reported :Apr 12, 2024

Report Number :2943405-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432154

Date Received :Apr 10, 2024

Date Reported :Apr 12, 2024

Report Number :2943405-1 C2

Page 1 of 2

Sample Number

2432154-8 to 14

Parameter

Wind Speed / Wind Direction

Location

จุดตรวจลม (พิกัด 47P 0734578 E, 1408535 N)

Sampling Date

Apr 02 - Apr 09, 2024

Sampling by

Panuwat Wangbong

Time	Apr 02 - Apr 03, 2024			Apr 03 - Apr 04, 2024			Apr 04 - Apr 05, 2024			Apr 05 - Apr 06, 2024			Apr 06 - Apr 07, 2024			Apr 07 - Apr 08, 2024			Apr 08 - Apr 09, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	2.4	150.0	SSE	1.9	139.0	SE	3.5	183.0	S	1.6	161.0	SSE	2.5	180.0	S	2.8	223.0	SW	2.7	199.0	SSW
11:00 AM - 12:00 PM	1.8	143.0	SE	2.4	165.0	SSE	2.6	144.0	SE	2.1	132.0	SE	1.6	130.0	SE	0.8	258.0	WSW	2.6	148.0	SSE
12:00 PM - 01:00 PM	2.3	149.0	SSE	3.5	197.0	SSW	1.6	192.0	SSW	2.3	141.0	SE	1.3	153.0	SSE	1.4	170.0	S	1.6	124.0	SE
01:00 PM - 02:00 PM	1.9	156.0	SSE	2.1	129.0	SE	1.3	160.0	SSE	2.8	120.0	ESE	1.8	168.0	SSE	2.4	225.0	SW	2.6	134.0	SE
02:00 PM - 03:00 PM	2.6	143.0	SE	2.0	192.0	SSW	1.2	188.0	S	2.4	141.0	SE	2.5	220.0	SW	1.7	200.0	SSW	1.4	240.0	WSW
03:00 PM - 04:00 PM	2.7	176.0	S	1.4	199.0	SSW	2.7	154.0	SSE	2.7	160.0	SSE	2.4	190.0	S	2.3	152.0	SSE	1.0	118.0	ESE
04:00 PM - 05:00 PM	2.3	157.0	SSE	1.3	139.0	SE	1.6	151.0	SSE	2.6	127.0	SE	1.6	165.0	SSE	1.5	232.0	SW	1.7	181.0	S
05:00 PM - 06:00 PM	1.9	156.0	SSE	1.0	175.0	S	2.5	153.0	SSE	3.7	153.0	SSE	2.1	167.0	SSE	1.6	246.0	WSW	2.4	131.0	SE
06:00 PM - 07:00 PM	1.2	144.0	SE	2.9	153.0	SSE	3.4	155.0	SSE	3.4	149.0	SSE	2.6	178.0	S	2.1	189.0	S	2.3	160.0	SSE
07:00 PM - 08:00 PM	2.8	131.0	SE	3.6	136.0	SE	2.8	140.0	SE	4.1	149.0	SSE	1.3	163.0	SSE	0.8	184.0	S	1.9	155.0	SSE
08:00 PM - 09:00 PM	2.9	141.0	SE	2.8	140.0	SE	2.7	134.0	SE	2.1	144.0	SE	2.6	145.0	SE	0.3	145.0	SE	1.2	145.0	SE
09:00 PM - 10:00 PM	1.8	145.0	SE	2.0	152.0	SSE	1.6	196.0	SSW	0.9	157.0	SSE	1.7	144.0	SE	1.2	151.0	SSE	1.6	150.0	SSE
10:00 PM - 11:00 PM	1.4	142.0	SE	0.8	144.0	SE	2.3	164.0	SSE	0.4	155.0	SSE	2.1	150.0	SSE	2.6	140.0	SE	2.4	146.0	SE
11:00 PM - 12:00 AM	0.8	135.0	SE	1.5	160.0	SSE	2.6	148.0	SSE	1.2	148.0	SSE	2.9	159.0	SSE	2.5	134.0	SE	1.8	174.0	S
12:00 AM - 01:00 AM	1.9	158.0	SSE	2.6	192.0	SSW	2.7	96.0	E	1.7	137.0	SE	3.7	156.0	SSE	1.6	154.0	SSE	2.0	148.0	SSE
01:00 AM - 02:00 AM	2.6	137.0	SE	0.9	177.0	S	1.4	149.0	SSE	2.1	210.0	SSW	2.5	157.0	SSE	2.4	143.0	SE	2.9	89.0	E
02:00 AM - 03:00 AM	3.1	168.0	SSE	2.6	155.0	SSE	1.5	152.0	SSE	0.6	168.0	SSE	1.9	142.0	SE	2.7	176.0	S	3.5	149.0	SSE
03:00 AM - 04:00 AM	2.4	110.0	ESE	2.3	157.0	SSE	1.6	155.0	SSE	1.3	140.0	SE	1.4	150.0	SSE	3.5	170.0	S	2.4	147.0	SSE
04:00 AM - 05:00 AM	2.1	125.0	SE	1.9	128.0	SE	1.8	146.0	SE	2.7	161.0	SSE	1.6	124.0	SE	3.4	152.0	SSE	1.9	144.0	SE
05:00 AM - 06:00 AM	1.8	152.0	SSE	1.5	146.0	SE	2.7	156.0	SSE	2.1	190.0	S	1.7	123.0	ESE	3.7	146.0	SE	2.8	150.0	SSE
06:00 AM - 07:00 AM	2.9	155.0	SSE	1.2	159.0	SSE	2.1	147.0	SSE	0.8	160.0	SSE	2.6	171.0	S	2.6	181.0	S	1.4	169.0	S
07:00 AM - 08:00 AM	2.7	186.0	S	1.7	190.0	S	2.9	172.0	S	0.4	119.0	ESE	1.8	129.0	SE	2.6	158.0	SSE	2.3	158.0	SSE
08:00 AM - 09:00 AM	2.1	140.0	SE	2.9	127.0	SE	3.4	137.0	SE	0.9	147.0	SSE	2.1	204.0	SSW	2.3	138.0	SE	1.4	153.0	SSE
09:00 AM - 10:00 AM	2.4	157.0	SSE	3.7	162.0	SSE	1.5	147.0	SSE	1.7	210.0	SSW	1.6	109.0	ESE	1.9	184.0	S	2.1	155.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) P.L.C. LTD. Be ALS Limited Companies

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) P.L.C. LTD. Be ALS Limited Companies

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



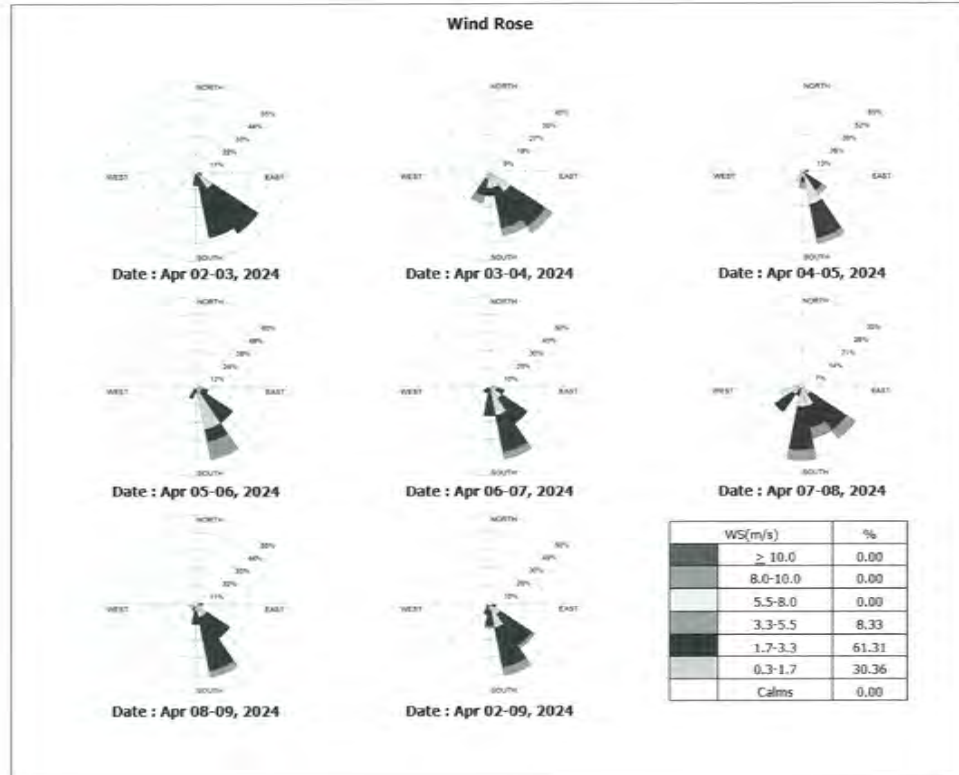
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432154
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number : 2943405-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432154
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number : 2943405-1 C2

Page 1 of 2

Sample Number : 2432154-15 to 21
Parameter : Wind Speed / Wind Direction
Location : เขตอุตสาหกรรม (รหัส 47P 0735259 E, 1408966 N)
Sampling Date : Apr 02 - Apr 09, 2024
Sampling by : Panuwat Wangbong

Time	Apr 02 - Apr 03, 2024			Apr 03 - Apr 04, 2024			Apr 04 - Apr 05, 2024			Apr 05 - Apr 06, 2024			Apr 06 - Apr 07, 2024			Apr 07 - Apr 08, 2024			Apr 08 - Apr 09, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	1.1	149.0	SSE	2.5	134.0	SE	3.4	210.0	SSW	0.9	133.0	SE	2.8	145.0	SE	2.9	181.0	S	1.7	152.0	SSE
12:00 PM - 01:00 PM	1.2	189.0	S	0.7	250.0	WSW	0.6	135.0	SE	1.3	208.0	SSW	1.2	160.0	SSE	2.3	232.0	SW	2.0	243.0	WSW
01:00 PM - 02:00 PM	1.3	151.0	SSE	1.8	255.0	WSW	1.4	138.0	SE	2.1	126.0	SE	0.1	-	-	2.5	204.0	SSW	2.6	223.0	SW
02:00 PM - 03:00 PM	0.9	126.0	SE	2.7	123.0	ESE	5.0	156.0	SSE	0.9	133.0	SE	2.0	214.0	SW	1.0	169.0	S	1.6	182.0	S
03:00 PM - 04:00 PM	0.3	141.0	SE	1.6	181.0	S	2.3	223.0	SW	1.0	186.0	S	3.4	233.0	SW	1.7	215.0	SW	0.8	182.0	S
04:00 PM - 05:00 PM	1.3	145.0	SE	0.3	305.0	NW	0.4	239.0	WSW	0.5	177.0	S	1.0	152.0	SSE	1.3	228.0	SW	0.7	165.0	SSE
05:00 PM - 06:00 PM	1.0	138.0	SE	0.3	148.0	SSE	0.5	155.0	SSE	0.4	153.0	SSE	0.5	211.0	SSW	1.3	247.0	WSW	1.0	146.0	SE
06:00 PM - 07:00 PM	0.6	167.0	SSE	1.1	125.0	SE	0.0	-	-	0.0	-	-	0.6	146.0	SE	0.9	148.0	SSE	0.4	148.0	SSE
07:00 PM - 08:00 PM	0.3	146.0	SE	0.4	147.0	SSE	1.5	138.0	SE	0.0	-	-	0.4	168.0	SSE	0.2	-	-	1.4	146.0	SE
08:00 PM - 09:00 PM	1.0	164.0	SSE	0.4	136.0	SE	0.7	144.0	SE	0.3	152.0	SSE	1.4	185.0	S	0.4	145.0	SE	0.9	144.0	SE
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.6	229.0	SW	0.6	89.0	E	1.2	187.0	S	0.7	167.0	SSE	1.2	147.0	SSE
10:00 PM - 11:00 PM	1.4	154.0	SSE	0.4	113.0	ESE	0.8	159.0	SSE	0.0	-	-	0.5	120.0	ESE	0.4	181.0	S	1.7	149.0	SSE
11:00 PM - 12:00 AM	0.2	-	-	1.2	147.0	SSE	0.6	153.0	SSE	0.3	148.0	SSE	0.8	125.0	SE	0.8	130.0	SE	0.9	150.0	SSE
12:00 AM - 01:00 AM	0.5	206.0	SSW	2.3	128.0	SE	0.0	-	-	0.1	-	-	0.4	141.0	SE	0.0	-	-	0.5	151.0	SSE
01:00 AM - 02:00 AM	0.4	142.0	SE	0.3	150.0	SSE	1.2	114.0	ESE	1.3	135.0	SE	0.4	183.0	S	0.5	185.0	S	1.1	143.0	SE
02:00 AM - 03:00 AM	0.0	-	-	0.4	159.0	SSE	0.5	154.0	SSE	0.0	-	-	0.2	-	-	0.5	129.0	SE	0.6	147.0	SSE
03:00 AM - 04:00 AM	0.7	163.0	SSE	1.0	129.0	SE	2.0	151.0	SSE	1.0	120.0	ESE	0.8	184.0	S	0.5	146.0	SE	1.4	155.0	SSE
04:00 AM - 05:00 AM	1.9	139.0	SE	1.3	142.0	SE	0.2	-	-	0.9	267.0	W	0.0	-	-	0.6	153.0	SSE	1.6	157.0	SSE
05:00 AM - 06:00 AM	0.4	145.0	SE	2.1	142.0	SE	1.1	155.0	SSE	1.2	131.0	SE	1.2	119.0	ESE	0.4	190.0	S	0.8	160.0	SSE
06:00 AM - 07:00 AM	1.6	80.0	E	0.9	152.0	SSE	1.0	159.0	SSE	1.4	151.0	SSE	1.0	254.0	WSW	0.3	144.0	SE	1.9	144.0	SE
07:00 AM - 08:00 AM	1.0	215.0	SW	1.4	134.0	SE	1.8	122.0	ESE	2.9	150.0	SSE	1.4	210.0	SSW	1.4	179.0	S	0.7	167.0	SSE
08:00 AM - 09:00 AM	2.1	120.0	ESE	1.1	182.0	S	2.0	119.0	ESE	1.0	190.0	S	0.7	209.0	SSW	0.8	211.0	SSW	1.4	141.0	SE
09:00 AM - 10:00 AM	2.6	176.0	S	3.8	152.0	SSE	1.2	161.0	SSE	1.4	181.0	S	1.6	134.0	SE	1.4	150.0	SSE	0.6	175.0	S
10:00 AM - 11:00 AM	4.4	198.0	SSW	1.5	215.0	SW	3.8	148.0	SSE	2.7	203.0	SSW	1.1	183.0	S	1.6	145.0	SE	1.8	148.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432154

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

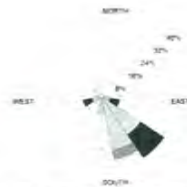
Report Number : 2943405-1 C2

Page 2 of 2

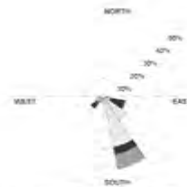
Wind Rose



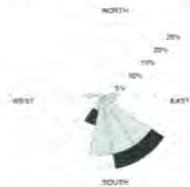
Date : Apr 02-03, 2024



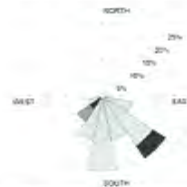
Date : Apr 03-04, 2024



Date : Apr 04-05, 2024



Date : Apr 05-06, 2024



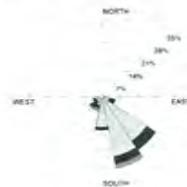
Date : Apr 06-07, 2024



Date : Apr 07-08, 2024



Date : Apr 08-09, 2024



Date : Apr 02-09, 2024

WS(m/s)	%
> 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	3.57
1.7-3.3	16.07
0.3-1.7	70.24
Calms	10.12

The above results are valid only for the analyzed sample(s) as indicated in this report. This part of the report for certificate may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241087
Date Received : Jan 09, 2024
Date Reported : Jan 16, 2024
Report Number : 2877344-1C2

Page 1 of 1

Sample Number : 241087-1
Sampled Date : Jan 08, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced : Jan 10, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	08/01/24 - 09/01/24	ug/m3	0.04	0.11	0.88	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	08/01/24 - 09/01/24	ug/m3	0.05	0.16	2.68	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
m,p-Xylene	08/01/24 - 09/01/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
o-Xylene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Styrene	08/01/24 - 09/01/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Toluene	08/01/24 - 09/01/24	ug/m3	0.60	1.88	16.13	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Ronnachai Moungma

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon
Senior Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

TH99 42/ ENM3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241086
Date Received : Jan 09, 2024
Date Reported : Jan 16, 2024
Report Number : 2877345-1C2

Page 1 of 1

Sample Number : 241086-1
Sampled Date : Jan 08, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced : Jan 10, 2024
Condition of Sample : Contained in one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	08/01/24 - 09/01/24	ug/m3	0.04	0.11	2.21	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	08/01/24 - 09/01/24	ug/m3	0.05	0.16	4.15	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
m,p-Xylene	08/01/24 - 09/01/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
o-Xylene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Styrene	08/01/24 - 09/01/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Toluene	08/01/24 - 09/01/24	ug/m3	0.60	1.88	13.19	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Ronnachai Moungma

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon
Senior Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

TH99 42/ ENM3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241079
Date Received : Jan 09, 2024
Date Reported : Jan 16, 2024
Report Number : 2877333-1C2

Sample Number : 241079-1
Sampled Date : Jan 08, 2024
Sample Description : Air Quality
Location : ต.นาเกลือ (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced : Jan 10, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	08/01/24 - 09/01/24	ug/m3	0.04	0.11	0.75	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	08/01/24 - 09/01/24	ug/m3	0.05	0.16	4.86	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	2.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	08/01/24 - 09/01/24	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	08/01/24 - 09/01/24	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	08/01/24 - 09/01/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	08/01/24 - 09/01/24	ug/m3	0.60	1.88	13.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Ronnachai Moungma

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon

Dej Changchon
Senior Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

2019-12/17/2021



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241084
Date Received : Jan 09, 2024
Date Reported : Jan 12, 2024
Report Number : 2877340-1 C2

Sample Number : 241084-1
Parameter : Wind Speed / Wind Direction
Location : ต.นาเกลือ (พิกัด 47P 0736529E, 1411273N)
Sampling Date : Jan 08 - Jan 09, 2024
Sampling by : Anurak Tongkhajonsakda

Time	Jan 08 - Jan 09, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.6	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.2	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	3.2	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.8	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.4	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.3	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.1	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.9	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.2	1.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.6	5.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.7	6.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	6.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.5	15.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	55.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

Approved by

Sarayuht Jitranont

Sarayuht Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phrantharak Rd. Phrantharak Rd. Khwaeng Phrantharak, Khet Sam Nuea, Bangkok 10760 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 4192
ALS LABORATORY GROUP (THAILAND) CO., LTD. 400 ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



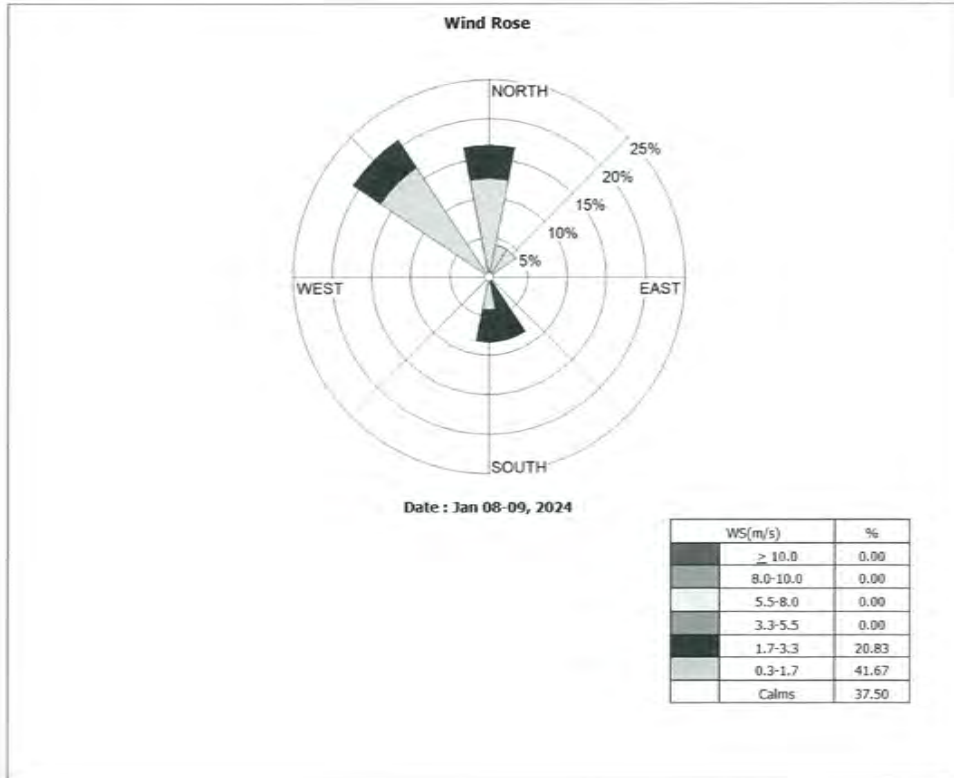
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241084
Date Received :Jan 09, 2024
Date Reported :Jan 12, 2024
Report Number :2877340-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241083
Date Received :Jan 09, 2024
Date Reported :Jan 12, 2024
Report Number :2877341-1 C2

Page 1 of 2

Sample Number : 241083-1
Parameter : Wind Speed / Wind Direction
Location : กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)
Sampling Date : Jan 08 - Jan 09, 2024
Sampling by : Anurak Tongkhajonsakda

Time	Jan 08 - Jan 09, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.3	25.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.5	64.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.6	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.5	39.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.2	38.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.6	58.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.1	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.1	127.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	3.5	179.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.2	229.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.4	220.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.1	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	3.5	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.7	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.2	246.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	102.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.1	45.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.9	32.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.4	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.9	25.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

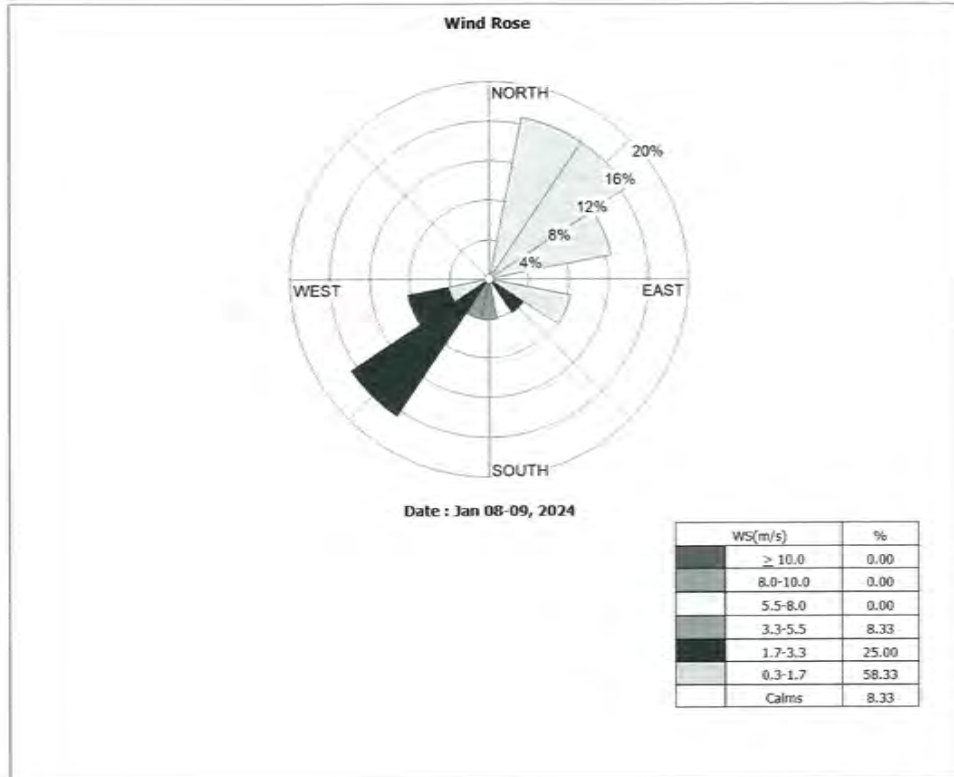


Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241083
Date Received : Jan 09, 2024
Date Reported : Jan 12, 2024
Report Number : 2877341-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241075
Date Received : Jan 09, 2024
Date Reported : Jan 12, 2024
Report Number : 2877338-1 C2

Page 1 of 2

Sample Number : 241075-1
Parameter : Wind Speed / Wind Direction
Location : อู่เรือท่ามาฟุต (พิกัด 47P 0735680E, 1408469N)
Sampling Date : Jan 08 - Jan 09, 2024
Sampling by : Anurak Tongkhajonsakda

Time	Jan 08 - Jan 09, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.9	265.0	W															
11:00 AM - 12:00 PM	1.5	120.0	ESE															
12:00 PM - 01:00 PM	0.8	162.0	SSE															
01:00 PM - 02:00 PM	2.0	281.0	W															
02:00 PM - 03:00 PM	1.7	238.0	WSW															
03:00 PM - 04:00 PM	0.8	156.0	SSE															
04:00 PM - 05:00 PM	0.6	239.0	WSW															
05:00 PM - 06:00 PM	0.8	277.0	W															
06:00 PM - 07:00 PM	0.0	-	-															
07:00 PM - 08:00 PM	0.2	-	-															
08:00 PM - 09:00 PM	0.1	-	-															
09:00 PM - 10:00 PM	1.3	271.0	W															
10:00 PM - 11:00 PM	0.4	271.0	W															
11:00 PM - 12:00 AM	0.0	-	-															
12:00 AM - 01:00 AM	0.3	318.0	NW															
01:00 AM - 02:00 AM	0.7	323.0	NW															
02:00 AM - 03:00 AM	1.9	323.0	NW															
03:00 AM - 04:00 AM	1.1	322.0	NW															
04:00 AM - 05:00 AM	1.6	323.0	NW															
05:00 AM - 06:00 AM	0.0	-	-															
06:00 AM - 07:00 AM	0.0	-	-															
07:00 AM - 08:00 AM	0.6	297.0	WNW															
08:00 AM - 09:00 AM	0.3	298.0	WNW															
09:00 AM - 10:00 AM	0.1	-	-															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranoit
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittranoit
Assistant General Manager



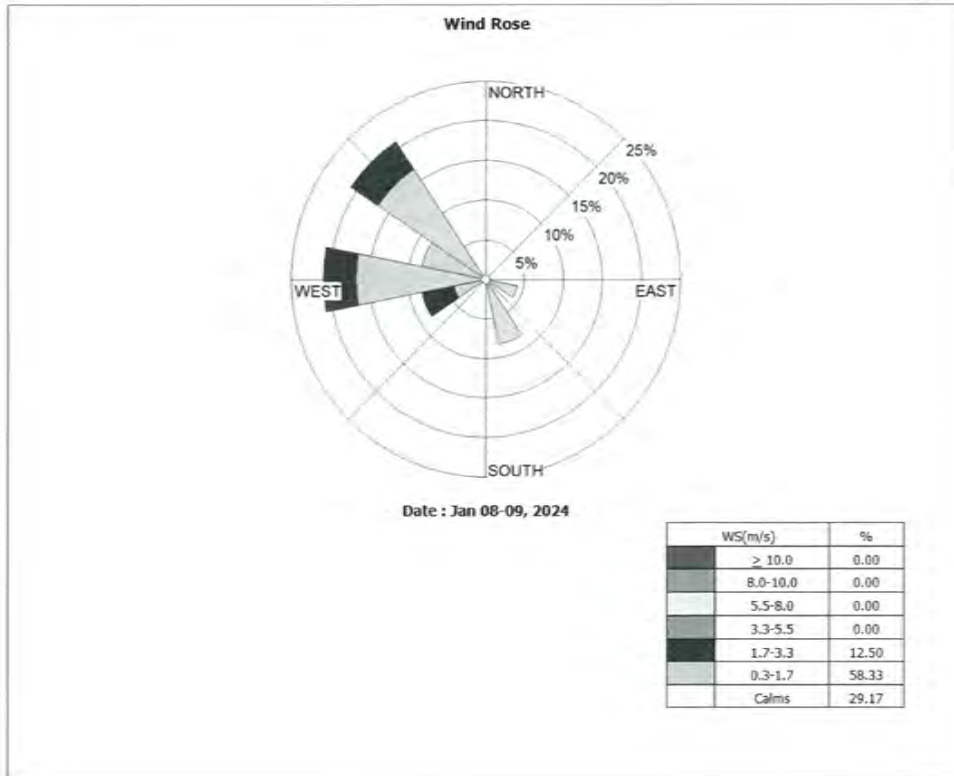
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 241075
Date Received : Jan 09, 2024
Date Reported : Jan 12, 2024
Report Number : 2877338-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2410704
Date Received : Feb 02, 2024
Date Reported : Feb 10, 2024
Report Number : 2896353-1C2

Page 1 of 1

Sample Number : 2410704-1
Sampled Date : Feb 01, 2024
Sample Description : Air Quality
Location : เขตอุตสาหกรรม (เขตบ้านนาเกลือ) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced : Feb 05, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	01/02/24 - 02/02/24	ug/m3	0.04	0.11	0.58	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/02/24 - 02/02/24	ug/m3	0.05	0.16	1.53	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/02/24 - 02/02/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/02/24 - 02/02/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	01/02/24 - 02/02/24	ug/m3	0.60	1.88	6.33	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Norranon Tathongkham

Remark :

-- LOD : Limit of Detection

-- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

D. Changchon

Dej Changchon
Senior Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

2896-42/EPAL

ADDRESS 3164 Phatthanakan Rd. Phatthanakan Rd. Khoson Phatthanakan Khoson Phatthanakan Bangkok 10750 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3142
ALS LABORATORY GROUP (THAILAND) CO., LTD. is an ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2410698
Date Received : Feb 02, 2024
Date Reported : Feb 10, 2024
Report Number : 2896336-1C2

Sample Number : 2410698-1
Sampled Date : Feb 01, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (รหัส 47P 0735259E, 1408966N)
Date Analysis Commenced : Feb 05, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	01/02/24 - 02/02/24	ug/m3	0.04	0.11	0.62	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/02/24 - 02/02/24	ug/m3	0.05	0.16	1.41	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/02/24 - 02/02/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/02/24 - 02/02/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	01/02/24 - 02/02/24	ug/m3	0.60	1.88	5.95	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Norranon Tathongkham

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon

Dej Changchon
Senior Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

7899-427 (PAG)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2410695
Date Received : Feb 02, 2024
Date Reported : Feb 10, 2024
Report Number : 2896329-1C2

Sample Number : 2410695-1
Sampled Date : Feb 01, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (รหัส 47P 0735680E, 1408469N)
Date Analysis Commenced : Feb 05, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	01/02/24 - 02/02/24	ug/m3	0.04	0.11	1.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/02/24 - 02/02/24	ug/m3	0.05	0.16	1.41	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/02/24 - 02/02/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/02/24 - 02/02/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/02/24 - 02/02/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	01/02/24 - 02/02/24	ug/m3	0.60	1.88	4.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Norranon Tathongkham

Remark :
LOD : Limit of Detection
LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon

Dej Changchon
Senior Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

7899-427 (PAG)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2410702
Date Received : Feb 02, 2024
Date Reported : Feb 08, 2024
Report Number : 2896351-1 C2

Page 1 of 2

Sample Number : 2410702-1
Parameter : Wind Speed / Wind Direction
Location : กรุงเทพมหานคร (กรุงเทพมหานคร) (พิกัด 47P 0736529E, 1411273N)
Sampling Date : Feb 01 - Feb 02, 2024
Sampling by : Norranon Tathongkham

Time	Feb 01 - Feb 02, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.8	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	3.1	178.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	3.0	161.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.8	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.8	176.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.6	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.9	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.2	192.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	188.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.5	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.9	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.8	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.2	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.6	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.4	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.5	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	163.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.4	40.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.5	58.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.7	75.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



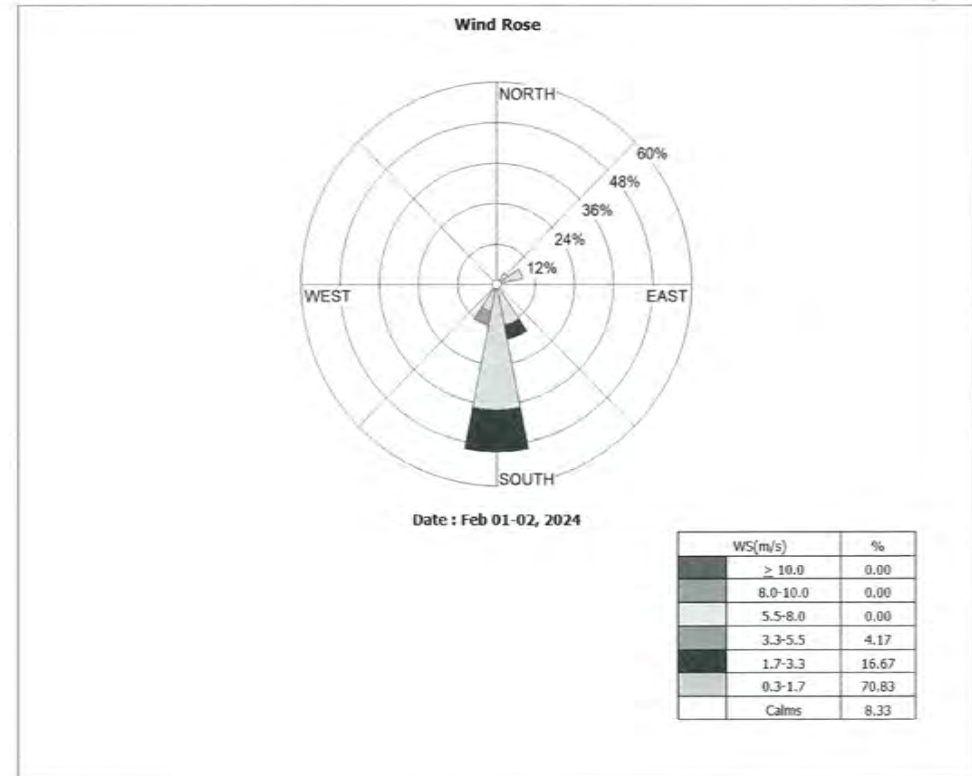
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2410702
Date Received : Feb 02, 2024
Date Reported : Feb 08, 2024
Report Number : 2896351-1 C2

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2410696

Date Received :Feb 02, 2024

Date Reported :Feb 08, 2024

Report Number :2896333-1 C2

Page 1 of 2

Sample Number : 2410696-1
Parameter : Wind Speed / Wind Direction
Location : กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)
Sampling Date : Feb 01 - Feb 02, 2024
Sampling by : Norranon Tathongkham

Time	Feb 01 - Feb 02, 2024																			
	WS (m/s)	WD (deg)																		
10:00 AM - 11:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.2	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	3.3	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	3.1	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.6	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.1	234.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.1	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.7	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.7	162.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.8	158.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.7	154.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	143.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.6	62.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.7	67.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.9	90.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	91.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.4	61.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.8	97.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.4	145.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) P.O. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

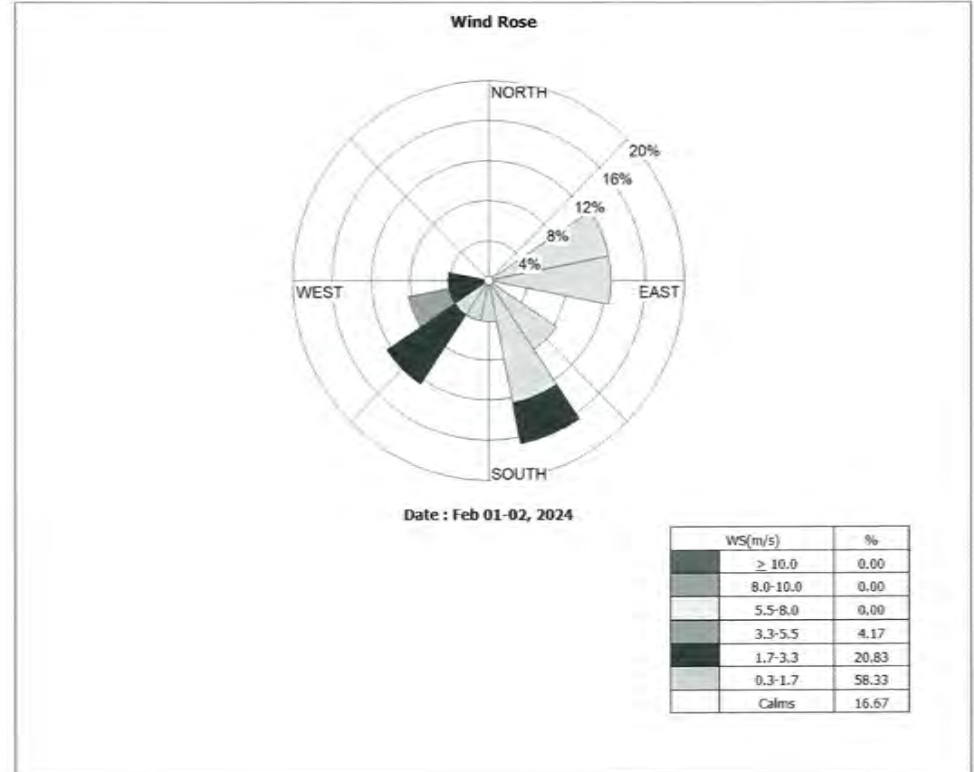
Lot ID: 2410696

Date Received :Feb 02, 2024

Date Reported :Feb 08, 2024

Report Number :2896333-1 C2

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) P.O. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2410694

Date Received :Feb 02, 2024

Date Reported :Feb 08, 2024

Report Number :2896317-1 C2

Page 1 of 2

Sample Number 2410694-1

Parameter	Wind Speed / Wind Direction
-----------	-----------------------------

Location	กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)
----------	--

Sampling Date Feb 01 - Feb 02, 2024

Sampling by Norranon Tathongkham

[illegible]

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. A.S. Laboratory Group (Thailand) strongly recommends that this report is not reproduced piecemeal.

Approved by _____

Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand • PHONE +66 0 2760 3000 • FAX +66 0 2760 3197
 SIC LABORATORY GROUP (THAILAND) CO., LTD. is a SCS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2410694

Date Received :Feb 02, 2024

Date Reported :Feb 08, 2024

Report Number :2896317-1 C2

Page 2 of 2



Date : Feb 01-02, 2024

WS(m/s)	%
> 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	4.17
1.7-3.3	12.50
0.3-1.7	66.67
Calm	16.67

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by _____

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
 a subsidiary of BSC GROUP (THAI) PUBLIC LTD. (an SEC Limited Company)

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417920
Date Received : Mar 05, 2024
Date Reported : Mar 20, 2024
Report Number : 2911910-1C2

Page 1 of 1

Sample Number : 2417920-1
Sampled Date : Mar 04, 2024
Sample Description : Air Quality
Location : เขตเทศบาลนคร (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced : Mar 06, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/03/24 - 05/03/24	ug/m3	0.04	0.11	0.53	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/03/24 - 05/03/24	ug/m3	0.05	0.16	0.89	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/03/24 - 05/03/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/03/24 - 05/03/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/03/24 - 05/03/24	ug/m3	0.60	1.88	2.94	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Nontachai Uppathamp

Remark :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Plaekdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

7999 42/13462



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417916
Date Received : Mar 05, 2024
Date Reported : Mar 20, 2024
Report Number : 2911907-1C2

Page 1 of 1

Sample Number : 2417916-1
Sampled Date : Mar 04, 2024
Sample Description : Air Quality
Location : เขตเทศบาลนคร (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced : Mar 06, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/03/24 - 05/03/24	ug/m3	0.04	0.11	1.42	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/03/24 - 05/03/24	ug/m3	0.05	0.16	1.21	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/03/24 - 05/03/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/03/24 - 05/03/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/03/24 - 05/03/24	ug/m3	0.60	1.88	2.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Nontachai Uppathamp

Remark :
LOD : Limit of Detection
" < " : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Plaekdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

7999 42/13462

Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417911
Date Received : Mar 05, 2024
Date Reported : Mar 20, 2024
Report Number : 2911904-1C2

Sample Number	2417911-1
Sampled Date	Mar 04, 2024
Sample Description	Air Quality
Location	กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced	Mar 06, 2024
Condition of Sample	Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/03/24 - 05/03/24	ug/m3	0.04	0.11	1.68	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/03/24 - 05/03/24	ug/m3	0.05	0.16	1.21	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/03/24 - 05/03/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/03/24 - 05/03/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/03/24 - 05/03/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/03/24 - 05/03/24	ug/m3	0.60	1.88	2.11	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Nontachai Uppathamp

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

7899-K17 EMAIL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2417919
Date Received :Mar 05, 2024
Date Reported :Mar 07, 2024
Report Number :2911908-1 C2

Page 1 of 2

Sample Number	2417919-1
Parameter	Wind Speed / Wind Direction
Location	อุทยานเขินพยอม (หมู่บ้านพยอม) (พิกัด 47P 0736529E, 1411273N)
Sampling Date	Mar 04 - Mar 05, 2024
Sampling by	Nontachai Uppathamp

[illegible]

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by _____

Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 1000 | FAX +66 0 2760 3197
 AS FABRICATORSHIP (THAI) LTD. AND CO., LTD. 25 Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

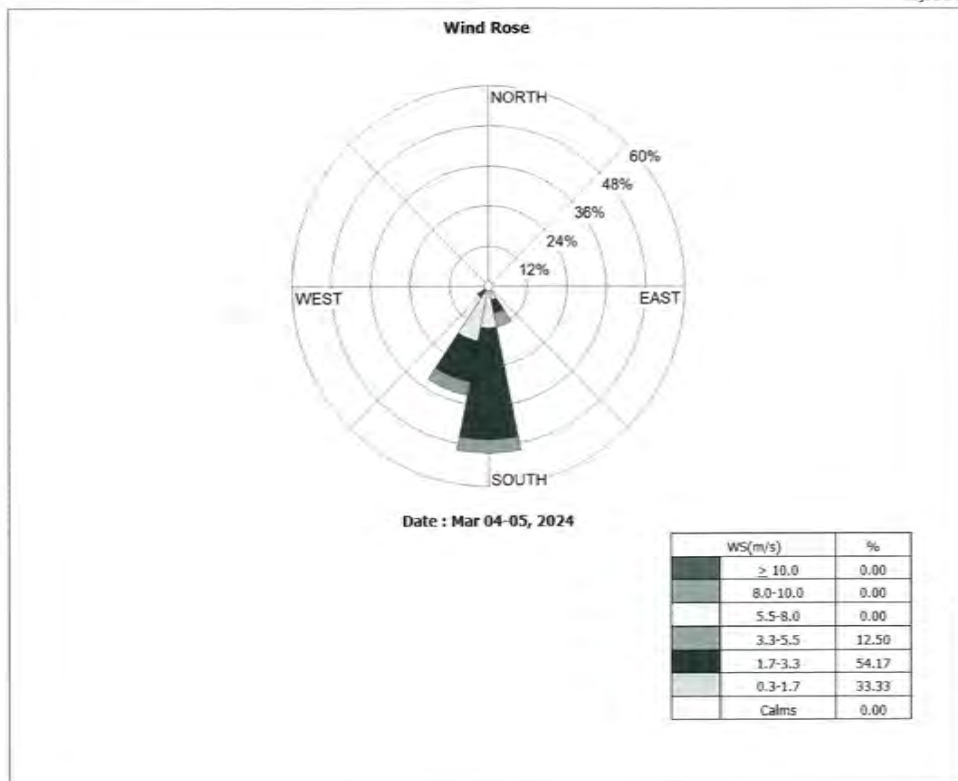
Lot ID: 2417919

Date Received : Mar 05, 2024

Date Reported : Mar 07, 2024

Report Number : 2911908-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2417914

Date Received : Mar 05, 2024

Date Reported : Mar 07, 2024

Report Number : 2911906-1 C2

Page 1 of 2

Time	Mar 04 - Mar 05, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	2.2	187.0	S															
11:00 AM - 12:00 PM	2.4	105.0	ESE															
12:00 PM - 01:00 PM	3.0	220.0	SW															
01:00 PM - 02:00 PM	3.2	202.0	SSW															
02:00 PM - 03:00 PM	2.8	188.0	S															
03:00 PM - 04:00 PM	1.1	180.0	S															
04:00 PM - 05:00 PM	0.6	57.0	ENE															
05:00 PM - 06:00 PM	1.8	168.0	SSE															
06:00 PM - 07:00 PM	1.7	82.0	E															
07:00 PM - 08:00 PM	0.8	119.0	ESE															
08:00 PM - 09:00 PM	1.1	133.0	SE															
09:00 PM - 10:00 PM	1.2	105.0	ESE															
10:00 PM - 11:00 PM	1.8	199.0	SSW															
11:00 PM - 12:00 AM	0.9	211.0	SSW															
12:00 AM - 01:00 AM	1.3	94.0	E															
01:00 AM - 02:00 AM	1.0	175.0	S															
02:00 AM - 03:00 AM	0.0	-	-															
03:00 AM - 04:00 AM	2.4	197.0	SSW															
04:00 AM - 05:00 AM	2.4	214.0	SW															
05:00 AM - 06:00 AM	0.0	-	-															
06:00 AM - 07:00 AM	0.8	121.0	ESE															
07:00 AM - 08:00 AM	1.3	197.0	SSW															
08:00 AM - 09:00 AM	0.9	143.0	SE															
09:00 AM - 10:00 AM	1.4	210.0	SSW															

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager



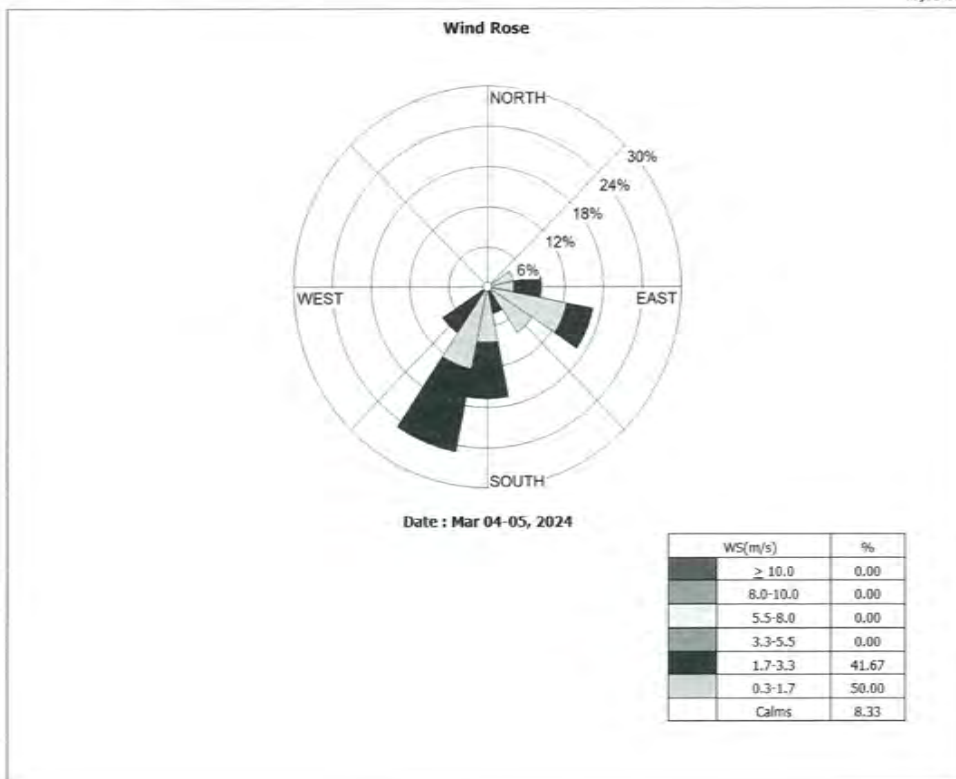
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417914
Date Received :Mar 05, 2024
Date Reported :Mar 07, 2024
Report Number :2911906-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417910
Date Received :Mar 05, 2024
Date Reported :Mar 07, 2024
Report Number :2911901-1 C2

Page 1 of 2

Sample Number : 2417910-1
Parameter : Wind Speed / Wind Direction
Location : อู่เรืออุตสาหกรรม (รหัส 47P 0735680E, 1408469N)
Sampling Date : Mar 04 - Mar 05, 2024
Sampling by : Nontchai Uppathamp

Time	Mar 04 - Mar 05, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	2.6	300.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.3	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	3.8	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.4	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.2	178.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.4	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.4	172.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	157.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.9	194.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.8	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.2	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.1	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	3.7	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	2.0	195.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.6	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.7	257.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.0	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.2	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.5	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.7	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.2	182.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.7	178.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.9	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	200.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

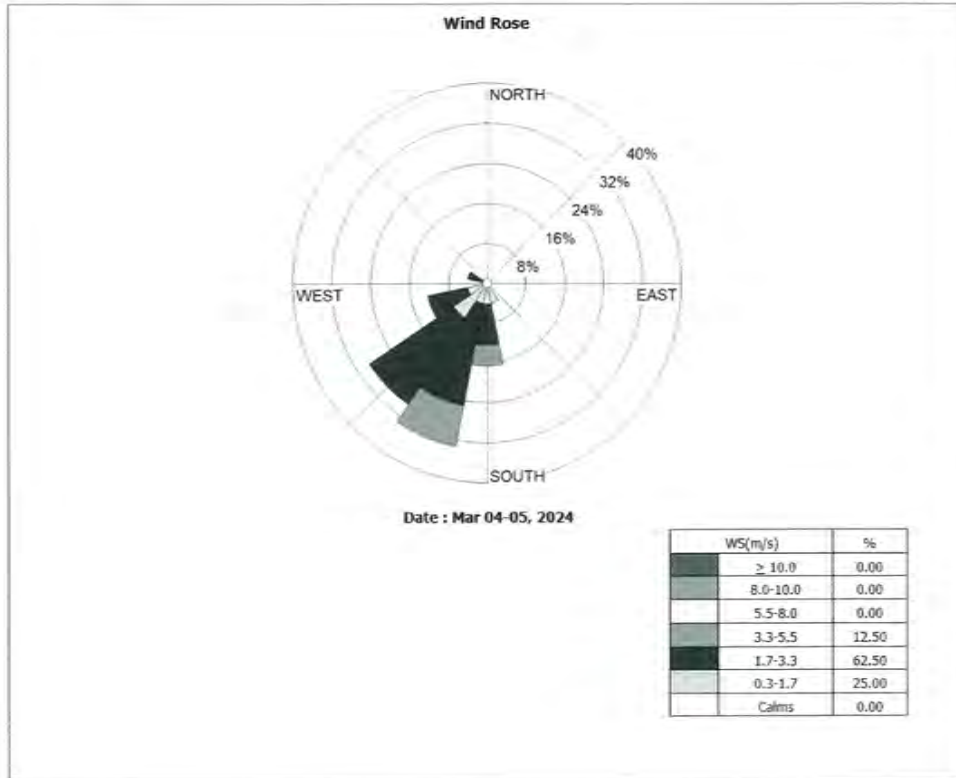


Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2417910
Date Received : Mar 05, 2024
Date Reported : Mar 07, 2024
Report Number : 2911901-1 C2

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432135
Date Received : Apr 05, 2024
Date Reported : Apr 18, 2024
Report Number : 2943367-1C2

Page 1 of 1

Sample Number : 2432135-1
Sampled Date : Apr 04, 2024
Sample Description : Air Quality
Location : เขตอุตสาหกรรม (หมู่บ้านหนอง) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced : Apr 06, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/04/24 - 05/04/24	ug/m3	0.04	0.11	Not Detected	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/04/24 - 05/04/24	ug/m3	0.05	0.16	0.19	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/04/24 - 05/04/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/04/24 - 05/04/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/04/24 - 05/04/24	ug/m3	0.60	1.88	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Satcha Phetsawaeng

Remark :

LOD : Limit of Detection

"<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

Approved by

Chonticha Subongkoch
Scientist (3)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432129
Date Received : Apr 05, 2024
Date Reported : Apr 18, 2024
Report Number : 2943363-1C2

Sample Number : 2432129-1
Sampled Date : Apr 04, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced : Apr 06, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/04/24 - 05/04/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/04/24 - 05/04/24	ug/m3	0.05	0.16	0.26	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/04/24 - 05/04/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/04/24 - 05/04/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/04/24 - 05/04/24	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Satcha Phetsawaeng

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

1999-12/ENGL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432122
Date Received : Apr 05, 2024
Date Reported : Apr 18, 2024
Report Number : 2943353-1C2

Sample Number : 2432122-1
Sampled Date : Apr 04, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced : Apr 06, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	04/04/24 - 05/04/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/04/24 - 05/04/24	ug/m3	0.05	0.16	0.45	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/04/24 - 05/04/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/04/24 - 05/04/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/04/24 - 05/04/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	04/04/24 - 05/04/24	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Satcha Phetsawaeng

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

1999-12/ENGL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432132

Date Received : Apr 05, 2024

Date Reported : Apr 10, 2024

Report Number : 2943365-1 C2

Sample Number : 2432132-1

Parameter : Wind Speed / Wind Direction

Location : อุทยานสิ่งแวดล้อม (หมู่บ้านหนองเตก) (พิกัด 47P 0736529 E, 1411273 N)

Sampling Date : Apr 04 - Apr 05, 2024

Sampling by : Satcha Phetsawaeng

Page 1 of 2

Time	Apr 04 - Apr 05, 2024													
	WS (m/s)	WD (deg)												
10:00 AM - 11:00 AM	1.5	190.0	S											
11:00 AM - 12:00 PM	2.4	230.0	SW											
12:00 PM - 01:00 PM	1.6	238.0	WSW											
01:00 PM - 02:00 PM	2.4	200.0	SSW											
02:00 PM - 03:00 PM	1.3	222.0	SW											
03:00 PM - 04:00 PM	2.5	206.0	SSW											
04:00 PM - 05:00 PM	1.6	227.0	SW											
05:00 PM - 06:00 PM	0.5	227.0	SW											
06:00 PM - 07:00 PM	1.6	215.0	SW											
07:00 PM - 08:00 PM	2.4	229.0	SW											
08:00 PM - 09:00 PM	1.6	216.0	SW											
09:00 PM - 10:00 PM	2.5	217.0	SW											
10:00 PM - 11:00 PM	1.6	213.0	SSW											
11:00 PM - 12:00 AM	1.4	223.0	SW											
12:00 AM - 01:00 AM	0.8	232.0	SW											
01:00 AM - 02:00 AM	1.6	200.0	SSW											
02:00 AM - 03:00 AM	2.4	200.0	SSW											
03:00 AM - 04:00 AM	1.6	222.0	SW											
04:00 AM - 05:00 AM	1.4	215.0	SW											
05:00 AM - 06:00 AM	1.5	216.0	SW											
06:00 AM - 07:00 AM	1.5	180.0	S											
07:00 AM - 08:00 AM	2.4	201.0	SSW											
08:00 AM - 09:00 AM	1.6	180.0	S											
09:00 AM - 10:00 AM	2.4	185.0	S											

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS: 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE: +66 0 3304 8555 FAX: +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

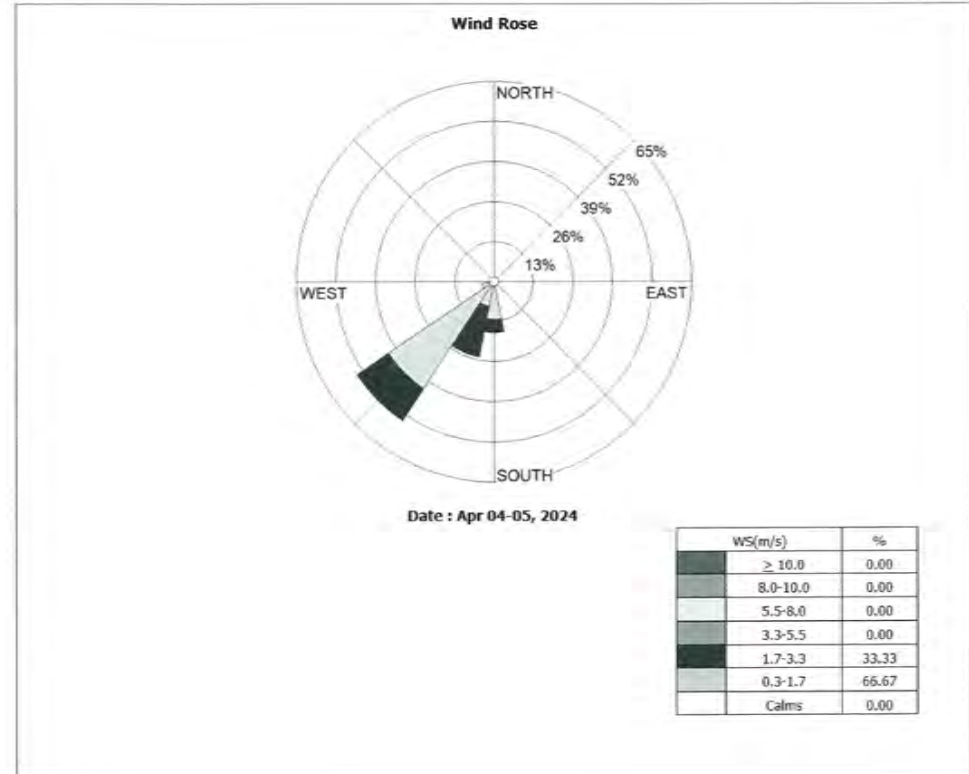
Lot ID: 2432132

Date Received : Apr 05, 2024

Date Reported : Apr 10, 2024

Report Number : 2943365-1 C2

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS: 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE: +66 0 3304 8555 FAX: +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432126

Date Received :Apr 05, 2024

Date Reported :Apr 10, 2024

Report Number :2943358-1 C2

Sample Number 2432126-1
Parameter Wind Speed / Wind Direction
Location อู่ทอปิโตรเลียม (พิกัด 47P 0735259 E, 1408966 N)
Sampling Date Apr 04 - Apr 05, 2024
Sampling by Satcha Phetsawaeng

Time	Apr 04 - Apr 05, 2024													
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.0	215.0	SW	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.1	135.0	SE	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	138.0	SE	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.4	156.0	SSE	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.1	223.0	SW	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.8	239.0	WSW	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.5	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	3.4	188.0	S	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.6	138.0	SE	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.4	144.0	SE	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	3.4	229.0	SW	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	4.6	159.0	SSE	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.8	153.0	SSE	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	3.8	174.0	S	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	3.2	114.0	ESE	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.6	154.0	SSE	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	3.8	151.0	SSE	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	3.6	168.0	SSE	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	3.6	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	4.9	159.0	SSE	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.2	122.0	ESE	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.4	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.6	120.0	ESE	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

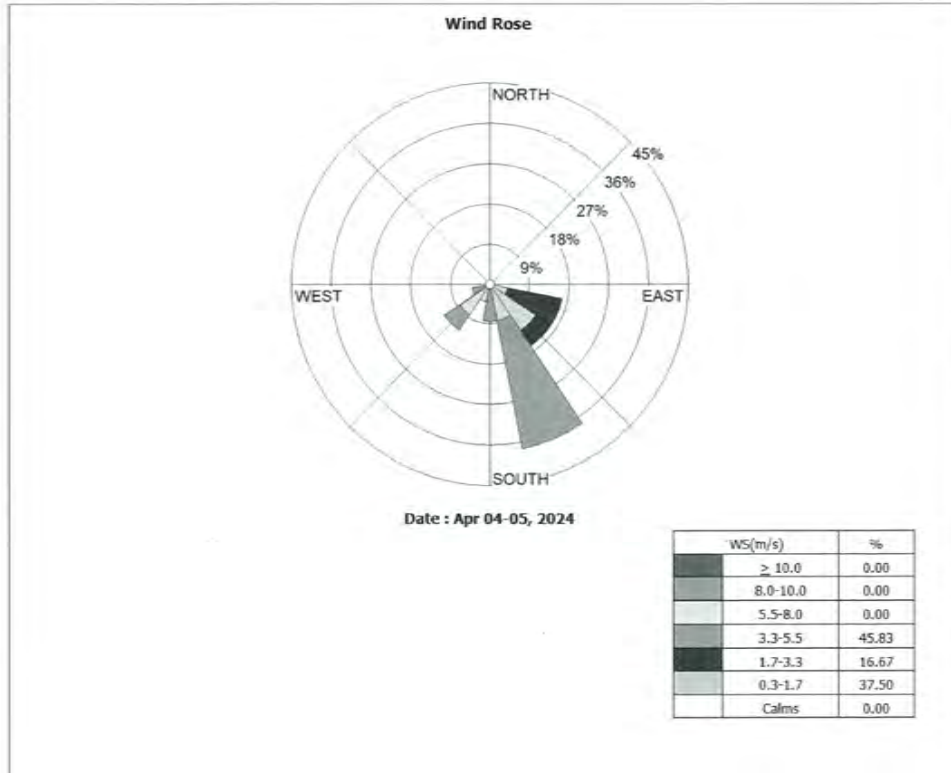
Project Location :

Lot ID: 2432126

Date Received :Apr 05, 2024

Date Reported :Apr 10, 2024

Report Number :2943358-1 C2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432120

Date Received :Apr 05, 2024

Date Reported :Apr 10, 2024

Report Number :2943350-1 CZ

Sample Number 2432120-1

Parameter Wind Speed / Wind Direction

Location ๔๗๗๗๗๗๗๗ (พิกัด 47P 0735680 E, 1408469 N)

Sampling Date Apr 04 - Apr 05, 2024

Sampling by Satcha Phetsawaeng

Time	Apr 04 - Apr 05, 2024											
	WS (m/s)	WD (deg)										
10:00 AM - 11:00 AM	1.1	149.0	SSE									
11:00 AM - 12:00 PM	1.2	189.0	S									
12:00 PM - 01:00 PM	1.3	151.0	SSE									
01:00 PM - 02:00 PM	0.9	126.0	SE									
02:00 PM - 03:00 PM	0.3	141.0	SE									
03:00 PM - 04:00 PM	1.3	145.0	SE									
04:00 PM - 05:00 PM	1.0	138.0	SE									
05:00 PM - 06:00 PM	0.8	167.0	SSE									
06:00 PM - 07:00 PM	0.3	146.0	SE									
07:00 PM - 08:00 PM	3.9	164.0	SSE									
08:00 PM - 09:00 PM	3.9	155.0	SSE									
09:00 PM - 10:00 PM	3.7	154.0	SSE									
10:00 PM - 11:00 PM	2.3	142.0	SE									
11:00 PM - 12:00 AM	3.2	206.0	SSW									
12:00 AM - 01:00 AM	3.5	142.0	SE									
01:00 AM - 02:00 AM	2.5	145.0	SE									
02:00 AM - 03:00 AM	3.4	163.0	SSE									
03:00 AM - 04:00 AM	1.9	139.0	SE									
04:00 AM - 05:00 AM	0.4	145.0	SE									
05:00 AM - 06:00 AM	1.6	80.0	E									
06:00 AM - 07:00 AM	1.0	215.0	SW									
07:00 AM - 08:00 AM	2.1	120.0	ESE									
08:00 AM - 09:00 AM	2.6	176.0	S									
09:00 AM - 10:00 AM	1.4	198.0	SSW									

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) PCL LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

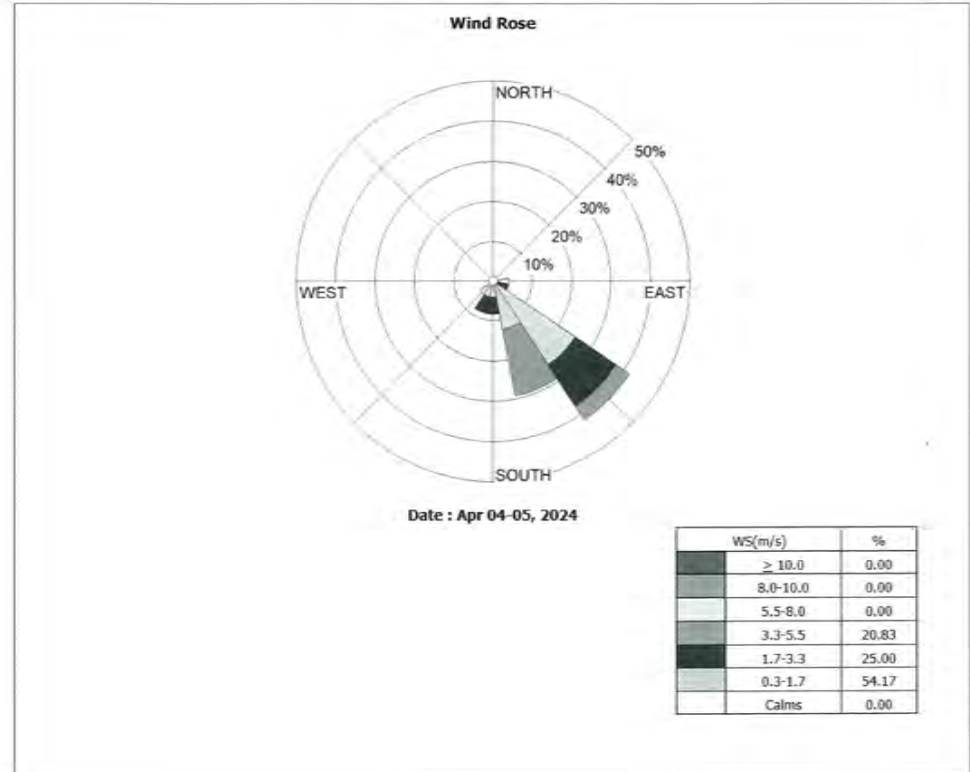
Project Location :

Lot ID: 2432120

Date Received :Apr 05, 2024

Date Reported :Apr 10, 2024

Report Number :2943350-1 CZ



The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) PCL LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2447503

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2976886-1

Page 1 of 3

Sample Number : 2447503-1
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : บริเวณโรงงาน (เขตอุตสาหกรรม)
Date Analysis Commenced : May 07, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	02/05/24 - 03/05/24	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/05/24 - 03/05/24	ug/m3	0.05	0.16	0.26	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/05/24 - 03/05/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/05/24 - 03/05/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	02/05/24 - 03/05/24	ug/m3	0.60	1.88	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Santi Chaichana

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Ploakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

FORM-SLE0903



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2447503

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2976886-1

Page 2 of 3

Sample Number : 2447503-2
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : บริเวณโรงงาน
Date Analysis Commenced : May 07, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	02/05/24 - 03/05/24	ug/m3	0.04	0.11	0.44	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/05/24 - 03/05/24	ug/m3	0.05	0.16	0.45	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/05/24 - 03/05/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/05/24 - 03/05/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	02/05/24 - 03/05/24	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Santi Chaichana

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Ploakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

FORM-SLE0903



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2447503

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2976886-1

Page 3 of 3

Sample Number : 2447503-3
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : บริเวณท่าเรือ
Date Analysis Commenced : May 07, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	02/05/24 - 03/05/24	ug/m3	0.04	0.11	0.97	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/05/24 - 03/05/24	ug/m3	0.05	0.16	0.58	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
m,p-Xylene	02/05/24 - 03/05/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
o-Xylene	02/05/24 - 03/05/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Styrene	02/05/24 - 03/05/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Toluene	02/05/24 - 03/05/24	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Santi Chaichana

Remark :

LOD : Limit of Detection

< : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chontichak

Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7490-5371985



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : Check

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2447502

Date Received : May 03, 2024

Date Reported : May 08, 2024

Report Number : 2976887-1

Page 1 of 2

Sample Number : 2447502-1
Parameter : Wind Speed / Wind Direction
Location : บริเวณท่าเรือ (จุดตรวจคุณภาพอากาศ)
Sampling Date : May 02 - May 03, 2024
Sampling by : Santi Chaichana

Time	May 02 - May 03, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	3.6	184.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
11:00 AM - 12:00 PM	3.4	159.0	SSE	--	--	--	--	--	--	--	--	--	--	--	--	--
12:00 PM - 01:00 PM	1.8	176.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
01:00 PM - 02:00 PM	2.0	192.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
02:00 PM - 03:00 PM	2.1	226.0	SW	--	--	--	--	--	--	--	--	--	--	--	--	--
03:00 PM - 04:00 PM	3.9	188.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
04:00 PM - 05:00 PM	2.0	196.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
05:00 PM - 06:00 PM	2.5	183.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
06:00 PM - 07:00 PM	1.4	185.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
07:00 PM - 08:00 PM	1.6	178.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
08:00 PM - 09:00 PM	2.2	188.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
09:00 PM - 10:00 PM	1.8	157.0	SSE	--	--	--	--	--	--	--	--	--	--	--	--	--
10:00 PM - 11:00 PM	1.7	187.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
11:00 PM - 12:00 AM	1.9	182.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
12:00 AM - 01:00 AM	1.2	182.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
01:00 AM - 02:00 AM	1.9	181.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
02:00 AM - 03:00 AM	2.0	191.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
03:00 AM - 04:00 AM	1.7	190.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--
04:00 AM - 05:00 AM	1.0	193.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
05:00 AM - 06:00 AM	2.4	212.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
06:00 AM - 07:00 AM	3.0	199.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
07:00 AM - 08:00 AM	3.2	198.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
08:00 AM - 09:00 AM	2.0	200.0	SSW	--	--	--	--	--	--	--	--	--	--	--	--	--
09:00 AM - 10:00 AM	1.8	189.0	S	--	--	--	--	--	--	--	--	--	--	--	--	--

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont

Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



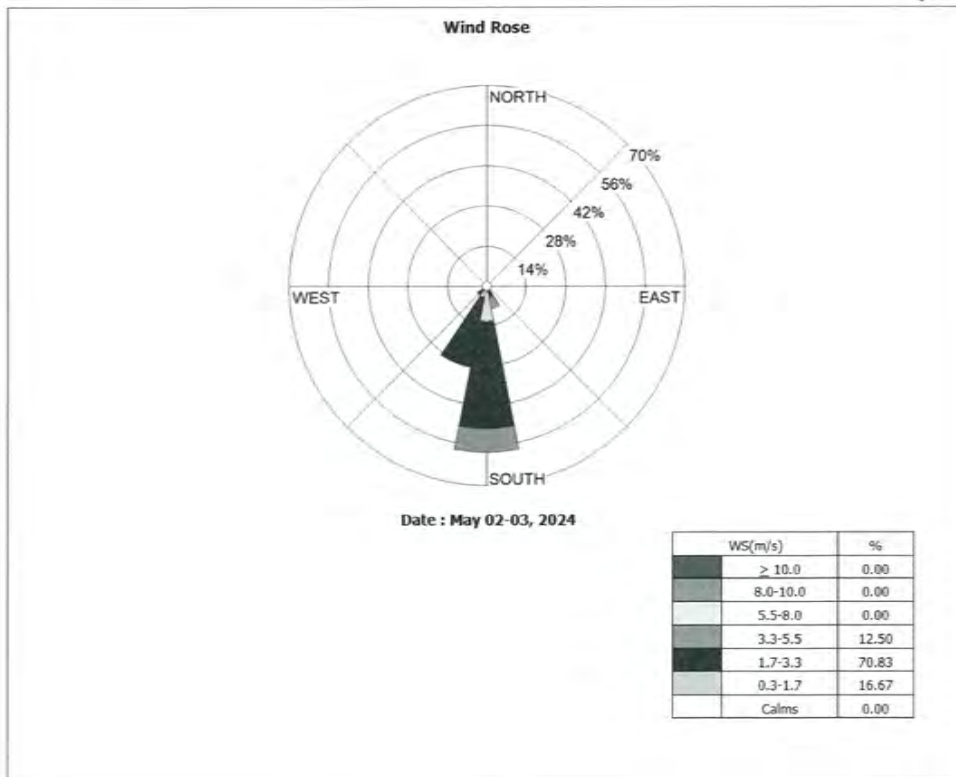
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2447502
Date Received : May 03, 2024
Date Reported : May 08, 2024
Report Number : 2976887-1

P/O : Check_
Project Name : Environmental Monitoring
Project Location :

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Prachinburi Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2447502
Date Received : May 03, 2024
Date Reported : May 08, 2024
Report Number : 2976887-1

P/O : Check_
Project Name : Environmental Monitoring
Project Location :

Page 1 of 2

Sample Number : 2447502-2
Parameter : Wind Speed / Wind Direction
Location : บ้านนาเกลือ
Sampling Date : May 02 - May 03, 2024
Sampling by : Santi Chaichana

Time	May 02 - May 03, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	2.0	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.8	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.9	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.3	131.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.1	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.9	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.3	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.8	223.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.4	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.4	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	172.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	202.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.8	138.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.1	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.7	246.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.1	334.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	92.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.0	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Prachinburi Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : Check

Project Name : Environmental Monitoring

Project Location :

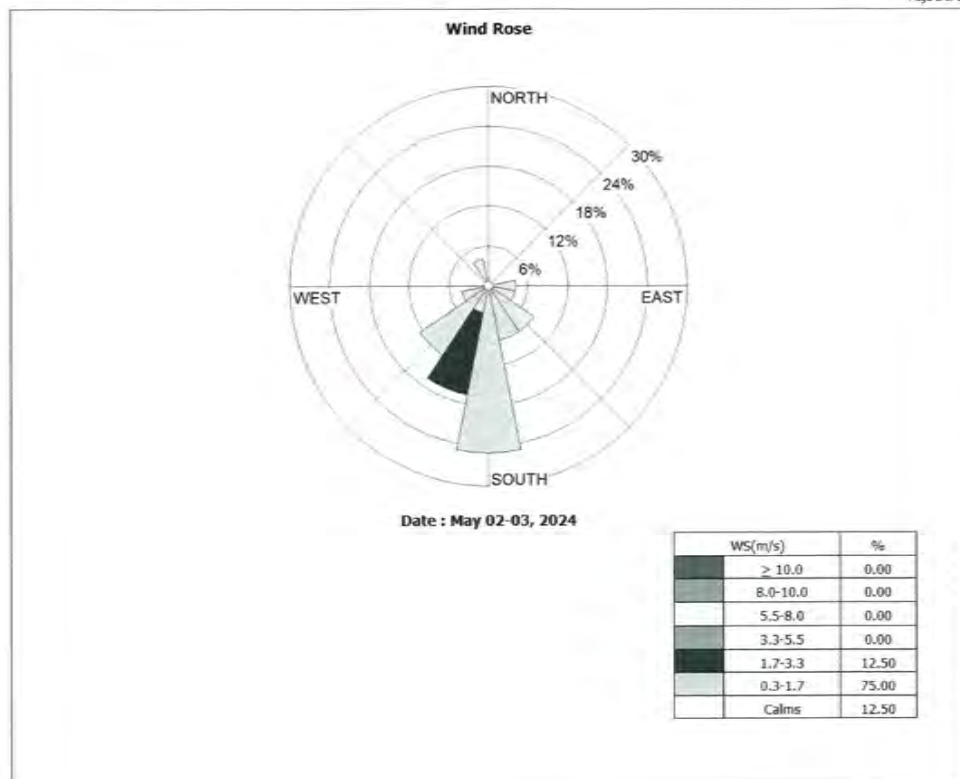
Lot ID: 2447502

Date Received : May 03, 2024

Date Reported : May 08, 2024

Report Number : 2976887-1

Page 2 of 2



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : Check

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2447502

Date Received : May 03, 2024

Date Reported : May 08, 2024

Report Number : 2976887-1

Page 1 of 2

Sample Number : 2447502-3
 Parameter : Wind Speed / Wind Direction
 Location : อู่เรือท่ามาบตาพุด
 Sampling Date : May 02 - May 03, 2024
 Sampling by : Santi Chaichana

Time	May 02 - May 03, 2024															
	WS (m/s)	WD (deg)														
11:00 AM - 12:00 PM	1.2	162.0	SSE													
12:00 PM - 01:00 PM	2.4	214.0	SW													
01:00 PM - 02:00 PM	1.0	250.0	WSW													
02:00 PM - 03:00 PM	0.8	166.0	SSE													
03:00 PM - 04:00 PM	2.9	142.0	SE													
04:00 PM - 05:00 PM	4.0	188.0	S													
05:00 PM - 06:00 PM	2.9	186.0	S													
06:00 PM - 07:00 PM	1.5	152.0	SSE													
07:00 PM - 08:00 PM	2.7	164.0	SSE													
08:00 PM - 09:00 PM	2.7	188.0	S													
09:00 PM - 10:00 PM	2.5	189.0	S													
10:00 PM - 11:00 PM	1.5	151.0	SSE													
11:00 PM - 12:00 AM	2.4	197.0	SSW													
12:00 AM - 01:00 AM	1.2	150.0	SSE													
01:00 AM - 02:00 AM	1.7	169.0	S													
02:00 AM - 03:00 AM	2.4	156.0	SSE													
03:00 AM - 04:00 AM	1.9	184.0	S													
04:00 AM - 05:00 AM	0.7	169.0	S													
05:00 AM - 06:00 AM	1.6	267.0	W													
06:00 AM - 07:00 AM	2.3	195.0	SSW													
07:00 AM - 08:00 AM	3.6	176.0	S													
08:00 AM - 09:00 AM	2.7	153.0	SSE													
09:00 AM - 10:00 AM	2.2	166.0	SSE													
10:00 AM - 11:00 AM	1.8	178.0	S													

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
 ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
 ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



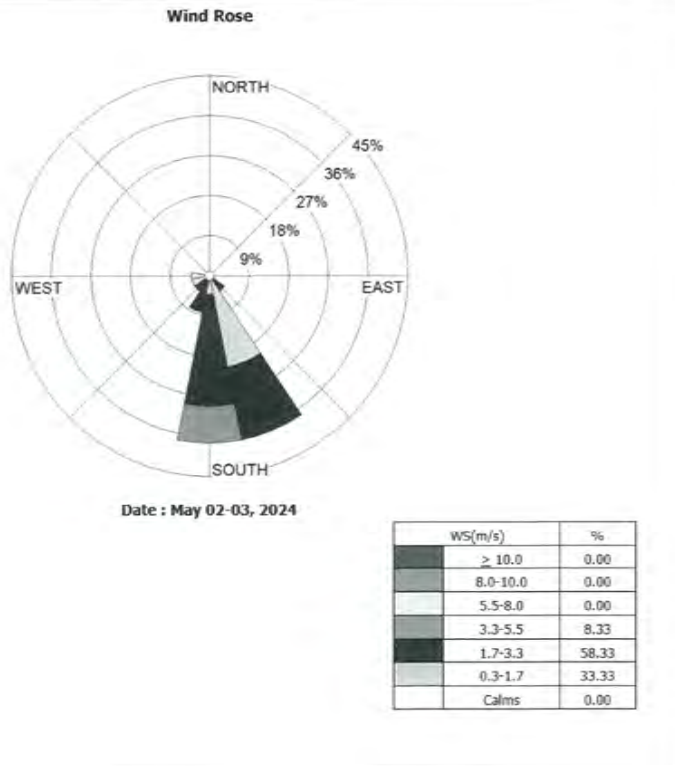
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2447502
Date Received : May 03, 2024
Date Reported : May 08, 2024
Report Number : 2976887-1

P/O : Check_
Project Name : Environmental Monitoring
Project Location :

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2459774
Date Received : Jun 25, 2024
Date Reported : Jul 04, 2024
Report Number : 3004030-1C2

Page 1 of 1

Sample Number : 2459774-1
Sampled Date : Jun 24, 2024
Sample Description : Air Quality
Location : กรุงเทพมหานคร (กรุงเทพมหานคร) (พิกัด 47P 0736529E, 1411273N)
Date Analysis Commenced : Jun 27, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	24/06/24 - 25/06/24	ug/m3	0.04	0.11	0.49	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	24/06/24 - 25/06/24	ug/m3	0.05	0.16	2.88	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	24/06/24 - 25/06/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	24/06/24 - 25/06/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Toluene	24/06/24 - 25/06/24	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

Sampled By : Supot Salamteh

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Chonticha Subongkoch
Scientist (3)

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

FORM-01/ENGL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2459772
Date Received : Jun 25, 2024
Date Reported : Jul 04, 2024
Report Number : 3004026-1C2

Page 1 of 1

Sample Number : 2459772-1
Sampled Date : Jun 24, 2024
Sample Description : Air Quality
Location : เขตอุตสาหกรรม (พิกัด 47P 0735259E, 1408966N)
Date Analysis Commenced : Jun 27, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	24/06/24 - 25/06/24	ug/m3	0.04	0.11	2.83	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	24/06/24 - 25/06/24	ug/m3	0.05	0.16	5.24	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
m,p-Xylene	24/06/24 - 25/06/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
o-Xylene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Styrene	24/06/24 - 25/06/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Toluene	24/06/24 - 25/06/24	ug/m3	0.60	1.88	2.26	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Supot Salamteah

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

Form 427 (FNAJ)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2459770
Date Received : Jun 25, 2024
Date Reported : Jul 04, 2024
Report Number : 3004026-1C2

Page 1 of 1

Sample Number : 2459770-1
Sampled Date : Jun 24, 2024
Sample Description : Air Quality
Location : เขตอุตสาหกรรม (พิกัด 47P 0735680E, 1408469N)
Date Analysis Commenced : Jun 27, 2024
Condition of Sample : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
1,3-Butadiene	24/06/24 - 25/06/24	ug/m3	0.04	0.11	1.37	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	24/06/24 - 25/06/24	ug/m3	0.05	0.16	6.84	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethyl Benzene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
m,p-Xylene	24/06/24 - 25/06/24	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
o-Xylene	24/06/24 - 25/06/24	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Styrene	24/06/24 - 25/06/24	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong
Toluene	24/06/24 - 25/06/24	ug/m3	0.60	1.88	3.39	No Standard	Based on US EPA Compendium Method, TO-15	--	Rayong

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).
Sampled By : Supot Salamteah

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chontichak
Chonticha Subongkoch
Scientist (3)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

Form 427 (FNAJ)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459773
Date Received :Jun 25, 2024
Date Reported :Jul 01, 2024
Report Number :3004029-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Sample Number : 2459773-1
Parameter : Wind Speed / Wind Direction
Location : ฐานปฏิบัติการ (น่านน้ำพตท) (พิกัด 47P 0736529 E, 1411273 N)
Sampling Date : Jun 24 - Jun 25, 2024
Sampling by : Supot Salamteh

Page 1 of 2

Time	Jun 24 - Jun 25, 2024																	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.9	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.2	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.5	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.5	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.6	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	185.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	174.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	155.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.3	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.2	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.9	172.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.6	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Huakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



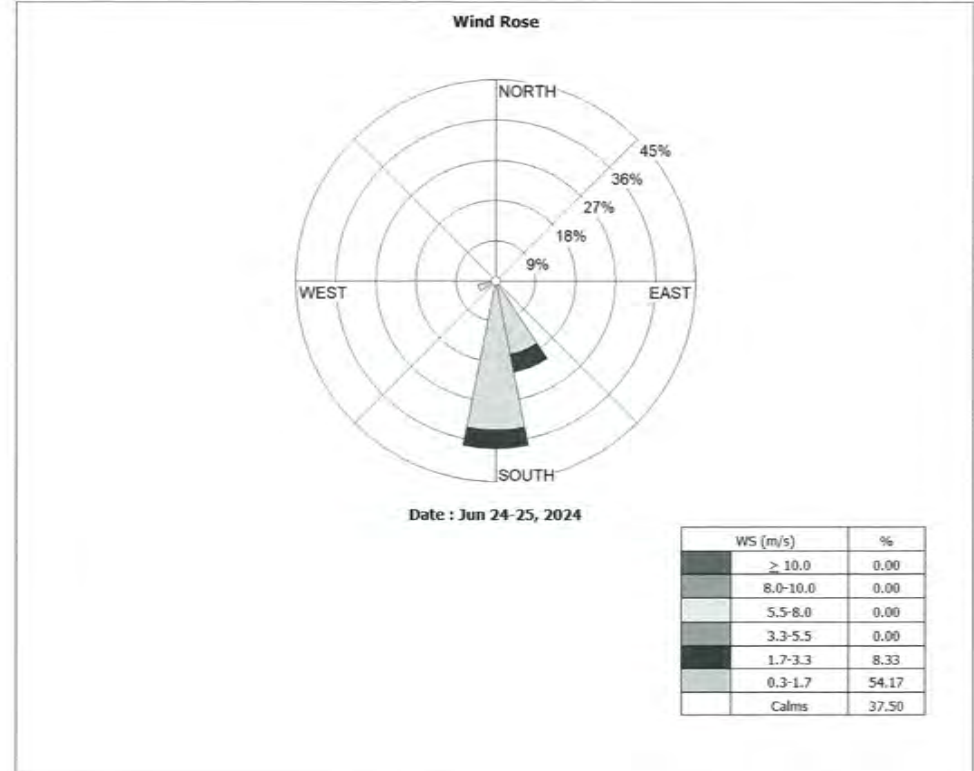
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459773
Date Received :Jun 25, 2024
Date Reported :Jul 01, 2024
Report Number :3004029-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Huakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459771
Date Received : Jun 25, 2024
Date Reported : Jul 01, 2024
Report Number : 3004027-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Sample Number : 2459771-1
Parameter : Wind Speed / Wind Direction
Location : เขตอุตสาหกรรม (รหัส 47P 0735259 E, 1408966 N)
Sampling Date : Jun 24 - Jun 25, 2024
Sampling by : Supot Salamteh

Page 1 of 2

Time	Jun 24 - Jun 25, 2024															
	WS (m/s)	WD (deg)														
10:00 AM - 11:00 AM	2.2	210.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.3	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.9	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.5	206.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	3.3	235.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	3.8	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	3.3	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	4.6	202.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.8	205.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	4.2	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.2	266.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.2	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	4.9	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	5.0	268.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.9	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.8	259.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	3.5	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	4.0	268.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.7	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.7	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.8	283.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand), strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



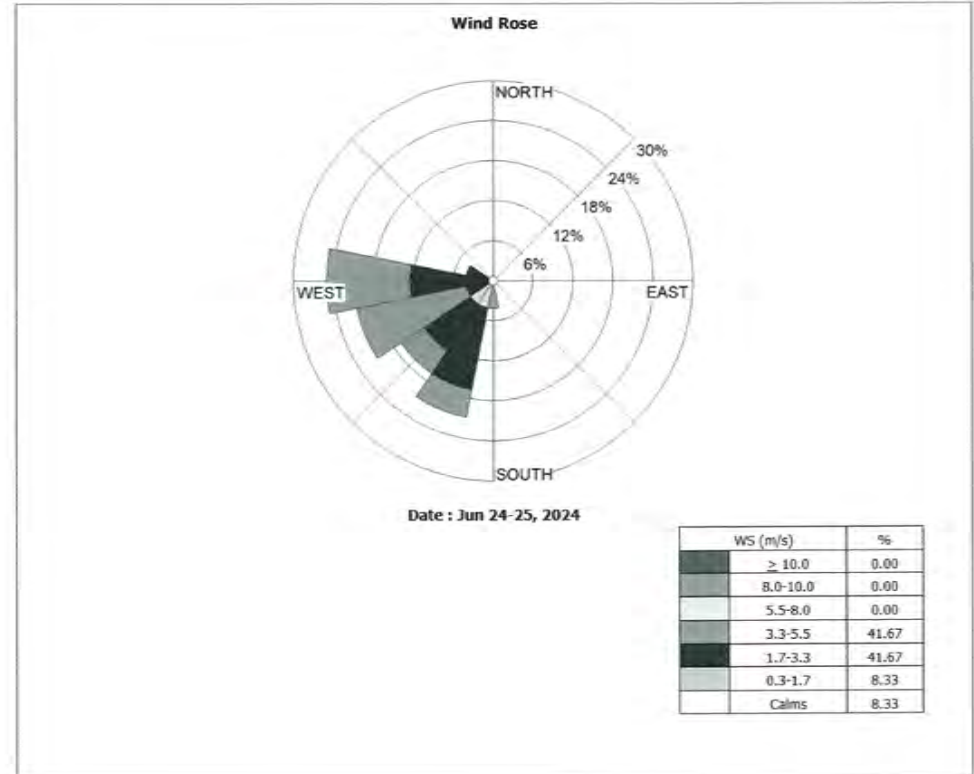
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459771
Date Received : Jun 25, 2024
Date Reported : Jul 01, 2024
Report Number : 3004027-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand), strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459769
Date Received : Jun 25, 2024
Date Reported : Jul 01, 2024
Report Number : 3004025-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Sample Number : 2459769-1
Parameter : Wind Speed / Wind Direction
Location : ระยอง (พิกัด 47P 0735680 E, 1408469 N)
Sampling Date : Jun 24 - Jun 25, 2024
Sampling by : Supot Salamteh

Page 1 of 2

Time	Jun 24 - Jun 25, 2024																	
	WS (m/s)	WD (deg)																
10:00 AM - 11:00 AM	4.3	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	3.7	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.8	231.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.6	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.8	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.3	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	3.9	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.1	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	4.7	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	3.6	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	3.9	202.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.1	278.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.6	263.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	3.6	275.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.1	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.0	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	3.2	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.8	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.6	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.9	263.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.1	256.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.7	224.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.3	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



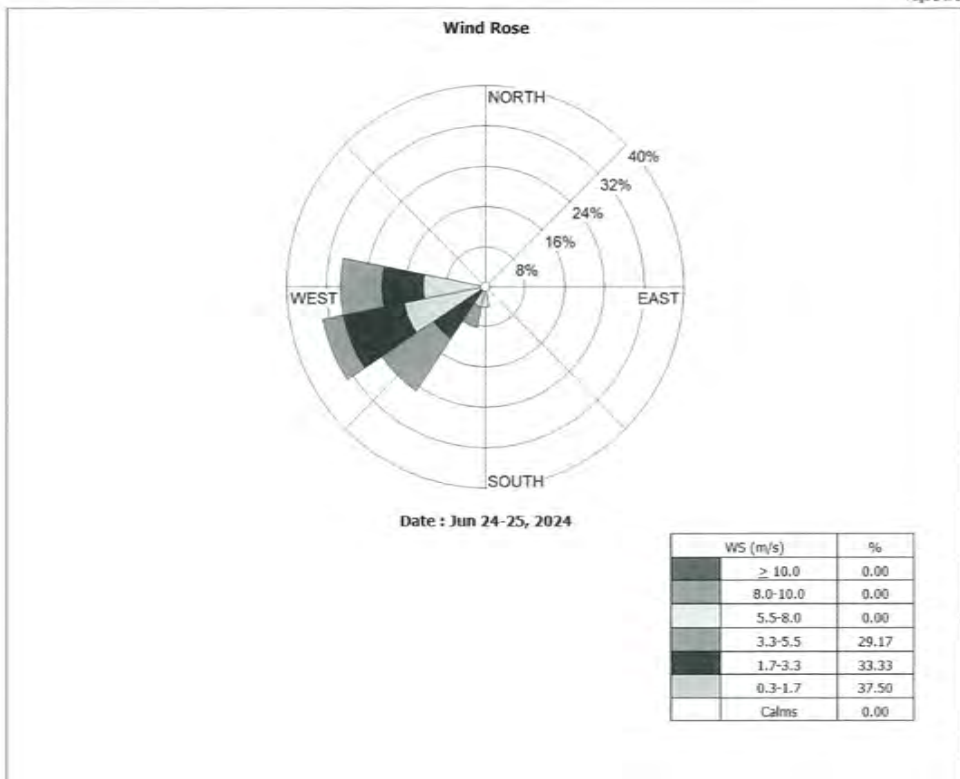
Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2459769
Date Received : Jun 25, 2024
Date Reported : Jul 01, 2024
Report Number : 3004025-1 C2

P/O :
Project Name : Environmental Monitoring
Project Location :

Page 2 of 2



The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jitranont
Assistant General Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ภาคผนวก ข-2

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากปล่องระบาย



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432597
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2944546-1 Rev. No.1

Page 1 of 2

Sample Number 2432597-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 Boiler A
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	182	°C	Gas Velocity	14.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	14.14	%	Flow Rate (Actual O2)	132339	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂ at 4.5 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location	
Air Testing										
Total Suspended Particulate	10:10 AM - 10:52 AM	mg/m3	-	0.5	3.7	4.37	214	320	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Suchada T.
Suchada Thammathaworn
Scientist (2)
โทรศัพท์ ๖-204-๖-0019

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรศัพท์ ๖-204-๖-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Report_Air Stack_O2_2GL.rpt (2:38PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432597
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2944546-1 Rev. No.1

Page 2 of 2

Sample Number 2432597-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 Boiler A
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	182	°C	Gas Velocity	14.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	14.14	%	Flow Rate (Actual O2)	132339	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:10 AM - 10:52 AM	g/s	-	-	0.16	6.77	-	Calculated	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Note:

This Analysis test report is reissued to supersede report No.2944546-1 Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Sawan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Suchada T.
Suchada Thammathaworn
Scientist (2)
โทรศัพท์ ๖-204-๖-0019

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรศัพท์ ๖-204-๖-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Report_Air Stack_O2_2GL.rpt (2:38PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432598

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944548-1

Page 1 of 1

Sample Number : 2432598-1
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 1 Boiler A
Measurement Date : Apr 04, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.40 m	Oxygen	4.54 %
Ambient Pressure	754 mmHg	Shape	Circle	Carbon dioxide	10.15 %
Type of Process	Combustion	Stack Temperature	184 °C	Gas Velocity	14.18 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	14.40 %	Flow Rate	127912 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:10 AM - 11:30 AM	4.61	10.12	63.81	54.45	8.63	7.36
2	11:31 AM - 11:51 AM	4.49	10.18	65.01	55.07	8.53	7.23
3	11:52 AM - 12:12 PM	4.52	10.16	64.75	54.95	9.73	8.26
Average (ppm)		4.54	10.15	64.52	54.82	8.97	7.62
Guideline ^{1/} (ppm)				-	90	-	172
Guideline ^{2/} (ppm)				-	200	-	60
Result (mg/Nm ³)				121.39	103.14	23.47	19.94
Emission Rate at Actual O ₂ (g/s)				4.3131		0.8338	
Guideline ^{1/} (g/s)				5.35		14.17	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Worawich Tongpoom

Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jittrantont
Sarayuth Jittrantont
Assistant General Manager
โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. DELIVERED BY SMART PEOPLE.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432598

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944548-1

Page 1 of 1

Sample Number : 2432598-1
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 1 Boiler A
Measurement Date : Apr 04, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.40 m	Oxygen	4.54 %
Ambient Pressure	754 mmHg	Shape	Circle	Carbon dioxide	10.15 %
Type of Process	Combustion	Stack Temperature	184 °C	Gas Velocity	14.18 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	14.40 %	Flow Rate	127912 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	at 7% O ₂
1	11:10 AM - 11:30 AM	4.61	10.12	0.09	0.08
2	11:31 AM - 11:51 AM	4.49	10.18	0.15	0.12
3	11:52 AM - 12:12 PM	4.52	10.16	0.21	0.18
Average (ppm)		4.54	10.15	0.15	0.13
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.17	0.15
Emission Rate at Actual O ₂ (g/s)				0.0061	
Method				US EPA Method 10	

Sampled By : Worawich Tongpoom

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jittrantont
Sarayuth Jittrantont
Assistant General Manager
โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. DELIVERED BY SMART PEOPLE.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432606
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971795-1

Page 1 of 2

Sample Number 2432606-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 2 Boiler B
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	5.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.8	%
Type of Process	Combustion		Stack Temperature	198	°C	Gas Velocity	15.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	13.96	%	Flow Rate (Actual O2)	137038	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂ at 5.2 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:25 PM - 03:07 PM	mg/m3	—	0.5	1.1 1.24	214	320	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432606
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971795-1

Page 2 of 2

Sample Number 2432606-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 2 Boiler B
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	5.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.8	%
Type of Process	Combustion		Stack Temperature	198	°C	Gas Velocity	15.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	13.96	%	Flow Rate (Actual O2)	137038	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	02:25 PM - 03:07 PM	g/s	—	—	0.05	6.77	—	Calculated	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Note:

This Analysis test report is reissued to supersede report No.2944559-2, Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Saliwan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Saranya C.
Saranya Chalermtamrong
Scientist (4)
โทรเลขหมายเลข 2-204-4-0011

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรเลขหมายเลข 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (4:07PM)

Technical Management

Saranya C.
Saranya Chalermtamrong
Scientist (4)
โทรเลขหมายเลข 2-204-4-0011

Approved by

Kanokorn Anek
Kanokorn Anek
Senior Manager
โทรเลขหมายเลข 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_O2_2GL.rpt (4:07PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432601

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944554-1

Page 1 of 1

Sample Number : 2432601-1
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 Boiler B
Measurement Date : Apr 03, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.40 m	Oxygen	5.20 %
Ambient Pressure	754 mmHg	Shape	Circle	Carbon dioxide	9.81 %
Type of Process	Combustion	Stack Temperature	198 °C	Gas Velocity	15.56 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	13.97 %	Flow Rate	136873 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	02:25 PM - 02:45 PM	5.11	9.88	65.75	57.87	7.92	6.97
2	02:46 PM - 03:06 PM	5.21	9.79	65.20	57.77	8.16	7.23
3	03:07 PM - 03:27 PM	5.29	9.75	64.17	57.14	8.09	7.20
Average (ppm)		5.20	9.81	65.04	57.59	8.05	7.13
Guideline ^{1/} (ppm)				-	90	-	172
Guideline ^{2/} (ppm)				-	200	-	60
Result (mg/Nm ³)				122.37	108.36	21.08	18.67
Emission Rate at Actual O ₂ (g/s)				4.6524		0.8016	
Guideline ^{2/} (g/s)				5.35		14.17	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Worawich Tongpoom

Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. INNOVATE. IMPROVE. INSURE.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432601

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944554-1

Page 1 of 1

Sample Number : 2432601-1
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 Boiler B
Measurement Date : Apr 03, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.40 m	Oxygen	5.20 %
Ambient Pressure	754 mmHg	Shape	Circle	Carbon dioxide	9.81 %
Type of Process	Combustion	Stack Temperature	198 °C	Gas Velocity	15.56 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	13.97 %	Flow Rate	136873 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	at 7% O ₂
1	02:25 PM - 02:45 PM	5.11	9.88	0.08	0.07
2	02:46 PM - 03:06 PM	5.21	9.79	0.10	0.09
3	03:07 PM - 03:27 PM	5.29	9.75	0.07	0.07
Average (ppm)		5.20	9.81	0.08	0.07
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.10	0.08
Emission Rate at Actual O ₂ (g/s)				0.0036	
Method				US EPA Method 10	

Sampled By : Worawich Tongpoom

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. INNOVATE. IMPROVE. INSURE.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432607
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971796-1

Page 1 of 2

Sample Number 2432607-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 Boiler C
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.40	m	Oxygen	4.6	%
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	187	°C	Gas Velocity	14.8	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	12.49	%	Flow Rate (Actual O2)	135173	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 4.6 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	11:10 AM - 11:52 AM	mg/m3	—	0.5	5.7	6.68	214	320	United States Environmental Protection Agency, EPA Method 5	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
หมายเลขโทรศัพท์ 2-204-4-0011

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
หมายเลขโทรศัพท์ 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Report\Air Stack_O2_2GL.rpt (4 11PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432607
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971796-1

Page 2 of 2

Sample Number 2432607-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 Boiler C
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.40	m	Oxygen	4.6	%
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	187	°C	Gas Velocity	14.8	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	12.49	%	Flow Rate (Actual O2)	135173	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:10 AM - 11:52 AM	g/s	—	—	0.25	6.77	—	Calculated	Bangkok

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Note:

This Analysis test report is reissued to supersede report No.2944558-1, Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Sawan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
หมายเลขโทรศัพท์ 2-204-4-0011

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
หมายเลขโทรศัพท์ 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Report\Air Stack_O2_2GL.rpt (4 11PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432602

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944553-1

Page 1 of 1

Sample Number 2432602-1
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 Boiler C
Measurement Date Apr 02, 2024

Stack Description					
Ambient Temperature	34 °C	Diameter	2.40 m	Oxygen	4.60 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	10.21 %
Type of Process	Combustion	Stack Temperature	187 °C	Gas Velocity	14.79 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	12.55 %	Flow Rate	134945 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:10 AM - 11:30 AM	4.63	10.19	68.05	58.13	14.27	12.19
2	11:31 AM - 11:51 AM	4.60	10.21	68.29	58.24	14.71	12.54
3	11:52 AM - 12:12 PM	4.57	10.23	68.27	58.11	14.68	12.50
Average (ppm)		4.60	10.21	68.20	58.16	14.55	12.41
Guideline ¹⁾ (ppm)					90		172
Guideline ²⁾ (ppm)					200		60
Result (mg/Nm ³)				128.31	109.43	38.10	32.49
Emission Rate at Actual O ₂ (g/s)				4.8098		1.4281	
Guideline ¹⁾ (g/s)				5.35		14.17	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Worawich Tongpoom

Guideline : ¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรเลขเลขที่ 2-204-6113

Approved by

Sarayuth Jittrantont
Sarayuth Jittrantont
Assistant General Manager
โทรเลขเลขที่ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432602

Date Received : Apr 05, 2024

Date Reported : Apr 12, 2024

Report Number : 2944553-1

Page 1 of 1

Sample Number 2432602-1
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 Boiler C
Measurement Date Apr 02, 2024

Stack Description					
Ambient Temperature	34 °C	Diameter	2.40 m	Oxygen	4.60 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	10.21 %
Type of Process	Combustion	Stack Temperature	187 °C	Gas Velocity	14.79 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	12.55 %	Flow Rate	134945 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	at 7% O ₂
1	11:10 AM - 11:30 AM	4.63	10.19	0.10	0.08
2	11:31 AM - 11:51 AM	4.60	10.21	0.17	0.15
3	11:52 AM - 12:12 PM	4.57	10.23	0.20	0.17
Average (ppm)		4.60	10.21	0.16	0.13
Guideline (ppm)					690
Result (mg/Nm ³)				0.18	0.15
Emission Rate at Actual O ₂ (g/s)				0.0067	
Method				US EPA Method 10	

Sampled By : Worawich Tongpoom

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรเลขเลขที่ 2-204-6113

Approved by

Sarayuth Jittrantont
Sarayuth Jittrantont
Assistant General Manager
โทรเลขเลขที่ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432608
Date Received : Apr 03, 2024
Date Reported : Apr 10, 2024
Report Number: 2944557-1

Page 1 of 2

Sample Number : 2432608-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 (H-100H)
Date Analysis Commenced : Apr 05, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.9	m/s
Type of Fuel	Fuel Gas		Moisture	12.81	%	Flow Rate (Actual O2)	194023	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂ at 6.0 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----	-----------	---	---------------	---------------	--------	------------------

Air Testing

Total Suspended Particulate	11:30 AM - 12:18 PM	mg/m3	-	0.5	2.7	2.89	21.5	60	United States Environmental Protection Agency, EPA Method 5	Bangkok
-----------------------------	---------------------	-------	---	-----	-----	------	------	----	---	---------

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432608
Date Received : Apr 03, 2024
Date Reported : Apr 10, 2024
Report Number: 2944557-1

Page 2 of 2

Sample Number : 2432608-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 (H-100H)
Date Analysis Commenced : Apr 05, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.9	m/s
Type of Fuel	Fuel Gas		Moisture	12.81	%	Flow Rate (Actual O2)	194023	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	---------------	---------------	--------	------------------

Air Testing

Total Suspended Particulate	11:30 AM - 12:18 PM	g/s	-	-	0.15	1.29	-	Calculated	Bangkok
-----------------------------	---------------------	-----	---	---	------	------	---	------------	---------

Guideline :

- 1.Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
- 2.Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampled By : Jeerasuk Sriwichai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Saranya C.

Saranya Chalermtamrong
Scientist (4)
โทรศัพท์ 2-204-4-0011

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
โทรศัพท์ 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-511 EMAIL

S:\Report\Air Stack_O2_2GL.rpt (6:25PM)

Technical Management

Saranya C.

Saranya Chalermtamrong
Scientist (4)
โทรศัพท์ 2-204-4-0011

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
โทรศัพท์ 2-204-4-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-511 EMAIL

S:\Report\Air Stack_O2_2GL.rpt (6:25PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432603
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944552-1

Page 1 of 1

Sample Number : 2432603-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 (H-100H)
Measurement Date : Apr 03, 2024

Stack Description							
Ambient Temperature	33	°C	Diameter	2.00	m	Oxygen	5.99 %
Ambient Pressure	752	mmHg	Shape	Circle		Carbon dioxide	7.27 %
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.89 m/s
Type of Fuel	Fuel Gas		Moisture	12.89	%	Flow Rate	193618 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	11:30 AM - 11:50 AM	6.09	7.21	26.54	24.90	0.12	0.11
2	11:51 AM - 12:11 PM	5.89	7.31	27.02	25.02	0.13	0.12
3	12:12 PM - 12:32 PM	5.98	7.28	26.50	24.68	0.14	0.13
Average (ppm)		5.99	7.27	26.68	24.87	0.13	0.12
Guideline ^{1/} (ppm)				-	50	-	7.2
Guideline ^{2/} (ppm)				-	120	-	20
Result (mg/Nm ³)				50.20	46.79	0.34	0.32
Emission Rate at Actual O ₂ (g/s)				2.7000		0.0185	
Guideline ^{1/} (g/s)				5.63		1.13	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Ussaree Namburee

Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

^{2/} Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Manager
เบอร์โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
เบอร์โทรศัพท์ 2-204-6113

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakarn Rd., Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432603
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944552-1

Page 1 of 1

Sample Number : 2432603-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 (H-100H)
Measurement Date : Apr 03, 2024

Stack Description							
Ambient Temperature	33	°C	Diameter	2.00	m	Oxygen	5.99 %
Ambient Pressure	752	mmHg	Shape	Circle		Carbon dioxide	7.27 %
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.89 m/s
Type of Fuel	Fuel Gas		Moisture	12.89	%	Flow Rate	193618 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:30 AM - 11:50 AM	6.09	7.21	0.59	0.56
2	11:51 AM - 12:11 PM	5.89	7.31	0.51	0.47
3	12:12 PM - 12:32 PM	5.98	7.28	0.52	0.48
Average (ppm)		5.99	7.27	0.54	0.50
Result (mg/Nm ³)				0.62	0.58
Emission Rate at Actual O ₂ (g/s)				0.0333	
Method				US EPA Method 10	

Sampled By : Ussaree Namburee

Technical Management

Wichan Choonharat
Manager
เบอร์โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
เบอร์โทรศัพท์ 2-204-6113

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakarn Rd., Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432610
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944692-1

Page 1 of 1

Sample Number : 2432610-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 1 H-100A
Measurement Date : Apr 02, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	4.51 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.53 %
Type of Process	Combustion	Stack Temperature	134 °C	Gas Velocity	16.64 m/s
Type of Fuel	Fuel Gas	Moisture	19.35 %	Flow Rate	109870 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:00 PM - 12:20 PM	4.52	8.55	39.49	33.52
2	12:21 PM - 12:41 PM	4.50	8.54	39.54	33.52
3	12:42 PM - 01:02 PM	4.49	8.52	39.90	33.81
Average (ppm)		4.51	8.53	39.64	33.61
Guideline ¹⁾ (ppm)				-	50
Guideline ²⁾ (ppm)				-	200
Result (mg/Nm ³)				74.58	63.24
Emission Rate at Actual O ₂ (g/s)				2.2762	
Guideline ³⁾ (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Anuvat Mounpair
Guideline : ¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
³⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๕-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ ๖-204-๕-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432610
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944692-1

Page 1 of 1

Sample Number : 2432610-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 1 H-100A
Measurement Date : Apr 02, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	4.51 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.53 %
Type of Process	Combustion	Stack Temperature	134 °C	Gas Velocity	16.64 m/s
Type of Fuel	Fuel Gas	Moisture	19.35 %	Flow Rate	109870 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:00 PM - 12:20 PM	4.52	8.55	2.52	2.14
2	12:21 PM - 12:41 PM	4.50	8.54	2.62	2.22
3	12:42 PM - 01:02 PM	4.49	8.52	2.63	2.23
Average (ppm)		4.51	8.53	2.59	2.20
Guideline (ppm)				-	690
Result (mg/Nm ³)				2.97	2.52
Emission Rate at Actual O ₂ (g/s)				0.0906	
Method				US EPA Method 10	

Sampled By : Anuvat Mounpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๕-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ ๖-204-๕-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432713
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944708-1

Page 1 of 1

Sample Number : 2432713-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Measurement Date : Apr 04, 2024

Stack Description

Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	4.70 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.40 %
Type of Process	Combustion	Stack Temperature	109 °C	Gas Velocity	17.24 m/s
Type of Fuel	Fuel Gas	Moisture	13.49 %	Flow Rate	130052 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:20 AM - 10:40 AM	4.70	8.34	44.84	38.47
2	10:41 AM - 11:01 AM	4.70	8.42	44.66	38.32
3	11:02 AM - 11:22 AM	4.70	8.44	44.86	38.48
Average (ppm)		4.70	8.40	44.79	38.43
Guideline ¹⁾ (ppm)				--	50
Guideline ²⁾ (ppm)				--	200
Result (mg/Nm ³)				84.26	72.29
Emission Rate at Actual O ₂ (g/s)				3.0440	
Guideline ³⁾ (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Anuvat Mounpair
Guideline :
¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 7-204-6-6113

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
โทรศัพท์ 7-204-6-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432713
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944708-1

Page 1 of 1

Sample Number : 2432713-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Measurement Date : Apr 04, 2024

Stack Description

Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	4.70 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.40 %
Type of Process	Combustion	Stack Temperature	109 °C	Gas Velocity	17.24 m/s
Type of Fuel	Fuel Gas	Moisture	13.49 %	Flow Rate	130052 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:20 AM - 10:40 AM	4.70	8.34	0.81	0.69
2	10:41 AM - 11:01 AM	4.70	8.42	0.82	0.70
3	11:02 AM - 11:22 AM	4.70	8.44	0.80	0.69
Average (ppm)		4.70	8.40	0.81	0.69
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.93	0.79
Emission Rate at Actual O ₂ (g/s)				0.0335	
Method				US EPA Method 10	

Sampled By : Anuvat Mounpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 7-204-6-6113

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
โทรศัพท์ 7-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 5000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 5000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432714
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944706-1

Page 1 of 1

Sample Number 2432714-1
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 3 H-100C
Measurement Date Apr 03, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	6.65 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	7.22 %
Type of Process	Combustion	Stack Temperature	99 °C	Gas Velocity	17.64 m/s
Type of Fuel	Fuel Gas	Moisture	12.32 %	Flow Rate	138559 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:00 PM - 12:20 PM	6.70	7.19	36.36	35.58
2	12:21 PM - 12:41 PM	6.64	7.23	36.15	35.24
3	12:42 PM - 01:02 PM	6.61	7.24	36.62	35.63
Average (ppm)		6.65	7.22	36.38	35.48
Guideline ^{1/} (ppm)				-	50
Guideline ^{2/} (ppm)				-	200
Result (mg/Nm ³)				68.44	66.76
Emission Rate at Actual O ₂ (g/s)				2.6341	
Guideline ^{1/} (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Anuvat Mounpair
Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลข 7-204-ค-6113

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
หมายเลข 7-204-ค-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432714
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944706-1

Page 1 of 1

Sample Number 2432714-1
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 3 H-100C
Measurement Date Apr 03, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	6.65 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	7.22 %
Type of Process	Combustion	Stack Temperature	99 °C	Gas Velocity	17.64 m/s
Type of Fuel	Fuel Gas	Moisture	12.32 %	Flow Rate	138559 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:00 PM - 12:20 PM	6.70	7.19	0.26	0.25
2	12:21 PM - 12:41 PM	6.64	7.23	0.28	0.27
3	12:42 PM - 01:02 PM	6.61	7.24	0.29	0.28
Average (ppm)		6.65	7.22	0.27	0.27
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.31	0.31
Emission Rate at Actual O ₂ (g/s)				0.0121	
Method				US EPA Method 10	

Sampled By : Anuvat Mounpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลข 7-204-ค-6113

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
หมายเลข 7-204-ค-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432715
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944704-1

Page 1 of 1

Sample Number : 2432715-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 4 H-1000
Measurement Date : Apr 02, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	3.85 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.54 %
Type of Process	Combustion	Stack Temperature	98 °C	Gas Velocity	16.87 m/s
Type of Fuel	Fuel Gas	Moisture	14.65 %	Flow Rate	129297 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	01:20 PM - 01:40 PM	3.86	8.53	37.53	30.61
2	01:41 PM - 02:01 PM	3.85	8.55	37.70	30.74
3	02:02 PM - 02:22 PM	3.85	8.55	37.73	30.75
Average (ppm)		3.85	8.54	37.65	30.70
Guideline ¹⁷ (ppm)				-	50
Guideline ¹⁸ (ppm)				-	200
Result (mg/Nm ³)				70.84	57.76
Emission Rate at Actual O ₂ (g/s)				2.5443	
Guideline ¹⁸ (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Anuvat Moungpair
Guideline : ¹⁷ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

¹⁸ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลข 2-204-6-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
หมายเลข 2-204-6-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432715
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944704-1

Page 1 of 1

Sample Number : 2432715-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 4 H-1000
Measurement Date : Apr 02, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	2.00 m	Oxygen	3.85 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	8.54 %
Type of Process	Combustion	Stack Temperature	98 °C	Gas Velocity	16.87 m/s
Type of Fuel	Fuel Gas	Moisture	14.65 %	Flow Rate	129297 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	01:20 PM - 01:40 PM	3.86	8.53	0.18	0.14
2	01:41 PM - 02:01 PM	3.85	8.55	0.19	0.16
3	02:02 PM - 02:22 PM	3.85	8.55	0.19	0.15
Average (ppm)		3.85	8.54	0.19	0.15
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.21	0.17
Emission Rate at Actual O ₂ (g/s)				0.0076	
Method				US EPA Method 10	

Sampled By : Anuvat Moungpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลข 2-204-6-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
หมายเลข 2-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) P.L.T.D. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT PLACE

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT PLACE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432716
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944703-1

Page 1 of 1

Sample Number	2432716-1							
Sample Description	Emission from Stationary Source							
Location	Naphtha Cracking Heater Stack 5 H-100E							
Measurement Date	Apr 04, 2024							
Stack Description								
Ambient Temperature	33	°C	Diameter	2.00	m	Oxygen	6.18	%
Ambient Pressure	752	mmHg	Shape	Circle		Carbon dioxide	6.93	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	17.09	m/s
Type of Fuel	Fuel Gas		Moisture	12.47	%	Flow Rate	132931	Nm3/h

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:40 AM - 12:00 PM	6.20	6.93	34.91	33.01
2	12:01 PM - 12:21 PM	6.19	6.93	34.61	32.69
3	12:22 PM - 12:42 PM	6.16	6.94	35.11	33.10
Average (ppm)		6.18	6.93	34.87	32.93
Guideline ^{1/} (ppm)				-	50
Guideline ^{2/} (ppm)				-	200
Result (mg/Nm ³)				65.61	61.96
Emission Rate at Actual O ₂ (g/s)				2.4228	
Guideline ^{1/} (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Anuvat Mounpair
Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ค-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432716
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944703-1

Page 1 of 1

Sample Number	2432716-1							
Sample Description	Emission from Stationary Source							
Location	Naphtha Cracking Heater Stack 5 H-100E							
Measurement Date	Apr 04, 2024							
Stack Description								
Ambient Temperature	33	°C	Diameter	2.00	m	Oxygen	6.18	%
Ambient Pressure	752	mmHg	Shape	Circle		Carbon dioxide	6.93	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	17.09	m/s
Type of Fuel	Fuel Gas		Moisture	12.47	%	Flow Rate	132931	Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:40 AM - 12:00 PM	6.20	6.93	0.42	0.40
2	12:01 PM - 12:21 PM	6.19	6.93	0.34	0.32
3	12:22 PM - 12:42 PM	6.16	6.94	0.39	0.36
Average (ppm)		6.18	6.93	0.38	0.36
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.44	0.41
Emission Rate at Actual O ₂ (g/s)				0.0162	
Method				US EPA Method 10	

Sampled By : Anuvat Mounpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ค-6113

Approved by

Sarayuth Jittrantont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ค-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432717
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944702-1

Page 1 of 1

Sample Number : 2432717-1
Sample Description : Emission from Stationary Source
Location : Naphttha Cracking Heater Stack 6 H-100F
Measurement Date : Apr 02, 2024

		Stack Description	
Ambient Temperature	33 °C	Diameter	2.00 m
Ambient Pressure	752 mmHg	Shape	Circle
Type of Process	Combustion	Stack Temperature	106 °C
Type of Fuel	Fuel Gas	Moisture	13.07 %
		Oxygen	4.46 %
		Carbon dioxide	7.77 %
		Gas Velocity	17.17 m/s
		Flow Rate	131186 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	01:10 PM - 01:30 PM	4.44	7.77	38.87	32.82
2	01:31 PM - 01:51 PM	4.47	7.76	38.89	32.90
3	01:52 PM - 02:12 PM	4.47	7.76	38.72	32.76
Average (ppm)		4.46	7.77	38.83	32.83
Guideline ^{1/} (ppm)				-	50
Guideline ^{2/} (ppm)				-	200
Result (mg/Nm ³)				73.05	61.76
Emission Rate at Actual O ₂ (g/s)				2.6621	
Guideline ^{1/} (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Ussaree Namburee
Guideline :
^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๖-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ ๖-204-๖-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432717
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944702-1

Page 1 of 1

Sample Number : 2432717-1
Sample Description : Emission from Stationary Source
Location : Naphttha Cracking Heater Stack 6 H-100F
Measurement Date : Apr 02, 2024

		Stack Description	
Ambient Temperature	33 °C	Diameter	2.00 m
Ambient Pressure	752 mmHg	Shape	Circle
Type of Process	Combustion	Stack Temperature	106 °C
Type of Fuel	Fuel Gas	Moisture	13.07 %
		Oxygen	4.46 %
		Carbon dioxide	7.77 %
		Gas Velocity	17.17 m/s
		Flow Rate	131186 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	01:10 PM - 01:30 PM	4.44	7.77	0.48	0.41
2	01:31 PM - 01:51 PM	4.47	7.76	0.46	0.39
3	01:52 PM - 02:12 PM	4.47	7.76	0.45	0.38
Average (ppm)		4.46	7.77	0.46	0.39
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.53	0.45
Emission Rate at Actual O ₂ (g/s)				0.0194	
Method				US EPA Method 10	

Sampled By : Ussaree Namburee
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๖-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ ๖-204-๖-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakarn 40, Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250, THAILAND - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS AVAILABLE AT ANY TIME

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakarn 40, Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250, THAILAND - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS AVAILABLE AT ANY TIME



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432718
Date Received : Jun 27, 2024
Date Reported : Jul 02, 2024
Report Number : 2944701-1

Page 1 of 1

Sample Number : 2432718-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Measurement Date : Jun 27, 2024

Stack Description					
Ambient Temperature	32	°C	Diameter	2.00	m
Ambient Pressure	754.8	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	100	°C
Type of Fuel	Fuel Gas		Moisture	14.83	%
			Oxygen	3.20	%
			Carbon dioxide	8.88	%
			Gas Velocity	17.23	m/s
			Flow Rate	131818	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:40 AM - 12:00 PM	3.27	8.84	40.51	31.93
2	12:01 PM - 12:21 PM	3.21	8.88	39.62	31.13
3	12:22 PM - 12:42 PM	3.11	8.94	38.85	30.36
Average (ppm)		3.20	8.88	39.66	31.14
Guideline ^{1/} (ppm)				-	50
Guideline ^{2/} (ppm)				-	200
Result (mg/Nm ³)				74.62	58.59
Emission Rate at Actual O ₂ (g/s)				2.7322	
Guideline ^{3/} (g/s)				3.93	
Method				US EPA Method 7E	

Sampled By : Ussaree Namburee
Guideline : ^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
^{3/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ค-0006

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ค-0003



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432718
Date Received : Jun 27, 2024
Date Reported : Jul 02, 2024
Report Number : 2944701-1

Page 1 of 1

Sample Number : 2432718-1
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Measurement Date : Jun 27, 2024

Stack Description					
Ambient Temperature	32	°C	Diameter	2.00	m
Ambient Pressure	754.8	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	100	°C
Type of Fuel	Fuel Gas		Moisture	14.83	%
			Oxygen	3.20	%
			Carbon dioxide	8.88	%
			Gas Velocity	17.23	m/s
			Flow Rate	131818	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:40 AM - 12:00 PM	3.27	8.84	0.14	0.11
2	12:01 PM - 12:21 PM	3.21	8.88	0.09	0.07
3	12:22 PM - 12:42 PM	3.11	8.94	0.09	0.07
Average (ppm)		3.20	8.88	0.10	0.08
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.12	0.09
Emission Rate at Actual O ₂ (g/s)				0.0043	
Method				US EPA Method 10	

Sampled By : Ussaree Namburee
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ค-0006

Approved by

Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ค-0003

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432719
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944700-1

Page 1 of 1

Sample Number : 2432719-1
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Measurement Date : Apr 03, 2024

Stack Description					
Ambient Temperature	34 °C	Diameter	1.50 m	Oxygen	1.91 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	9.65 %
Type of Process	Combustion	Stack Temperature	139 °C	Gas Velocity	27.11 m/s
Type of Fuel	Fuel Gas	Moisture	17.85 %	Flow Rate	101132 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:20 AM - 10:40 AM	1.93	9.65	41.29	30.25
2	10:41 AM - 11:01 AM	1.87	9.68	41.38	30.23
3	11:02 AM - 11:22 AM	1.94	9.62	41.81	30.66
Average (ppm)		1.91	9.65	41.49	30.38
Guideline ¹⁾ (ppm)				-	50
Guideline ²⁾ (ppm)				-	200
Result (mg/Nm ³)				78.07	57.15
Emission Rate at Actual O ₂ (g/s)				2.1930	
Guideline ²⁾ (g/s)				3.31	
Method				US EPA Method 7E	

Sampled By : Anuvat Moungpair
Guideline : ¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-6-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432719
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944700-1

Page 1 of 1

Sample Number : 2432719-1
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Measurement Date : Apr 03, 2024

Stack Description					
Ambient Temperature	34 °C	Diameter	1.50 m	Oxygen	1.91 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	9.65 %
Type of Process	Combustion	Stack Temperature	139 °C	Gas Velocity	27.11 m/s
Type of Fuel	Fuel Gas	Moisture	17.85 %	Flow Rate	101132 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:20 AM - 10:40 AM	1.93	9.65	0.57	0.42
2	10:41 AM - 11:01 AM	1.87	9.68	0.54	0.40
3	11:02 AM - 11:22 AM	1.94	9.62	0.50	0.37
Average (ppm)		1.91	9.65	0.54	0.39
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.62	0.45
Emission Rate at Actual O ₂ (g/s)				0.0173	
Method				US EPA Method 10	

Sampled By : Anuvat Moungpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 3000 : FAX +66 0 2760 8197
ALS LABORATORY GROUP (THAILAND) CO., LTD. - An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432720
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944698-1

Page 1 of 1

Sample Number : 2432720-1
Sample Description : Emission from Stationary Source
Location : GHU II (H-830)
Measurement Date : Apr 05, 2024

Stack Description					
Ambient Temperature	33	°C	Diameter	1.40	m
Ambient Pressure	752	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	276	°C
Type of Fuel	Fuel Gas		Moisture	13.19	%
			Oxygen	13.27	%
			Carbon dioxide	4.01	%
			Gas Velocity	8.36	m/s
			Flow Rate	21598	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	03:20 PM - 03:40 PM	13.27	4.02	15.05	27.42
2	03:41 PM - 04:01 PM	13.26	4.01	15.05	27.40
3	04:02 PM - 04:22 PM	13.29	4.01	14.90	27.20
Average (ppm)		13.27	4.01	15.00	27.34
Guideline ¹⁾ (ppm)				-	55
Guideline ²⁾ (ppm)				-	200
Result (mg/Nm ³)				28.22	51.43
Emission Rate at Actual O ₂ (g/s)				0.1693	
Guideline ¹⁾ (g/s)				0.24	
Method				US EPA Method 7E	

Sampled By : Anuvat Mounpair
Guideline : ¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432720
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944698-1

Page 1 of 1

Sample Number : 2432720-1
Sample Description : Emission from Stationary Source
Location : GHU II (H-830)
Measurement Date : Apr 05, 2024

Stack Description					
Ambient Temperature	33	°C	Diameter	1.40	m
Ambient Pressure	752	mmHg	Shape	Circle	
Type of Process	Combustion		Stack Temperature	276	°C
Type of Fuel	Fuel Gas		Moisture	13.19	%
			Oxygen	13.27	%
			Carbon dioxide	4.01	%
			Gas Velocity	8.36	m/s
			Flow Rate	21598	Nm ³ /hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	03:20 PM - 03:40 PM	13.27	4.02	21.71	39.55
2	03:41 PM - 04:01 PM	13.26	4.01	21.63	39.36
3	04:02 PM - 04:22 PM	13.29	4.01	21.91	40.01
Average (ppm)		13.27	4.01	21.75	39.64
Guideline (ppm)				-	690
Result (mg/Nm ³)				24.91	45.40
Emission Rate at Actual O ₂ (g/s)				0.1494	
Method				US EPA Method 10	

Sampled By : Anuvat Mounpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432721
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944697-1

Page 1 of 1

Sample Number : 2432721-1
Sample Description : Emission from Stationary Source
Location : OCU Feed Heater (H-760)
Measurement Date : Apr 05, 2024

		Stack Description			
Ambient Temperature	33 °C	Diameter	1.75 m	Oxygen	8.95 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	5.99 %
Type of Process	Combustion	Stack Temperature	248 °C	Gas Velocity	5.54 m/s
Type of Fuel	Fuel Gas	Moisture	11.83 %	Flow Rate	23941 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:30 PM - 12:50 PM	8.92	6.01	24.92	28.93
2	12:51 PM - 01:11 PM	8.99	5.97	25.38	29.61
3	01:12 PM - 01:32 PM	8.94	6.00	24.45	28.42
Average (ppm)		8.95	5.99	24.92	28.99
Guideline ^{1/} (ppm)				-	55
Guideline ^{2/} (ppm)				-	200
Result (mg/Nm ³)				46.88	54.53
Emission Rate at Actual O ₂ (g/s)				0.3118	
Guideline ^{2/} (g/s)				0.37	
Method				US EPA Method 7E	

Sampled By : Anuvat Moungpair
Guideline :
^{1/} Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
^{2/} Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat

Wichan Choonharat
Manager

โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-6-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432721
Date Received : Apr 06, 2024
Date Reported : Apr 12, 2024
Report Number : 2944697-1

Page 1 of 1

Sample Number : 2432721-1
Sample Description : Emission from Stationary Source
Location : OCU Feed Heater (H-760)
Measurement Date : Apr 05, 2024

		Stack Description			
Ambient Temperature	33 °C	Diameter	1.75 m	Oxygen	8.95 %
Ambient Pressure	752 mmHg	Shape	Circle	Carbon dioxide	5.99 %
Type of Process	Combustion	Stack Temperature	248 °C	Gas Velocity	5.54 m/s
Type of Fuel	Fuel Gas	Moisture	11.83 %	Flow Rate	23941 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	12:30 PM - 12:50 PM	8.92	6.01	24.29	28.19
2	12:51 PM - 01:11 PM	8.99	5.97	25.94	30.26
3	01:12 PM - 01:32 PM	8.94	6.00	24.20	28.12
Average (ppm)		8.95	5.99	24.81	28.86
Guideline (ppm)				-	690
Result (mg/Nm ³)				28.41	33.05
Emission Rate at Actual O ₂ (g/s)				0.1889	
Method				US EPA Method 10	

Sampled By : Anuvat Moungpair
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat

Wichan Choonharat
Manager
โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250, THAILAND. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432722
Date Received : May 31, 2024
Date Reported : Jun 10, 2024
Report Number : 2944695-1

Page 1 of 1

Sample Number : 2432722-1
Sample Description : Emission from Stationary Source
Location : OCU Regeneration Heater (H-761)
Measurement Date : May 30, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	0.85 m	Oxygen	7.59 %
Ambient Pressure	758 mmHg	Shape	Circle	Carbon dioxide	6.65 %
Type of Process	Combustion	Stack Temperature	688 °C	Gas Velocity	7.35 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	9.55 %	Flow Rate	4199 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:50 AM - 12:10 PM	7.94	6.47	14.00	15.01
2	12:11 PM - 12:31 PM	7.44	6.73	4.62	4.78
3	12:32 PM - 12:52 PM	7.39	6.77	3.71	3.82
Average (ppm)		7.59	6.65	7.45	7.87
Guideline (ppm)				-	690
Result (mg/Nm ³)				8.53	9.01
Emission Rate at Actual O ₂ (g/s)				0.0099	
Method				US EPA Method 10	

Sampled By : Ussaree Namburee
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ก-0006

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ก-0003

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10750, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432722
Date Received : May 31, 2024
Date Reported : Jun 10, 2024
Report Number : 2944695-1

Page 1 of 1

Sample Number : 2432722-1
Sample Description : Emission from Stationary Source
Location : OCU Regeneration Heater (H-761)
Measurement Date : May 30, 2024

Stack Description					
Ambient Temperature	33 °C	Diameter	0.85 m	Oxygen	7.59 %
Ambient Pressure	758 mmHg	Shape	Circle	Carbon dioxide	6.65 %
Type of Process	Combustion	Stack Temperature	688 °C	Gas Velocity	7.35 m/s
Type of Fuel	Fuel Gas+CKB	Moisture	9.55 %	Flow Rate	4199 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:50 AM - 12:10 PM	7.94	6.47	22.98	24.64
2	12:11 PM - 12:31 PM	7.44	6.73	23.71	24.49
3	12:32 PM - 12:52 PM	7.39	6.77	23.77	24.46
Average (ppm)		7.59	6.65	23.49	24.53
Guideline ¹⁾ (ppm)				-	55
Guideline ²⁾ (ppm)				-	200
Result (mg/Nm ³)				44.19	46.16
Emission Rate at Actual O ₂ (g/s)				0.0515	
Guideline ³⁾ (g/s)				0.14	
Method				US EPA Method 7E	

Sampled By : Ussaree Namburee
Guideline : ¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
ทะเบียนเลขที่ 7-204-ก-0006

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
ทะเบียนเลขที่ 7-204-ก-0003

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10750, THAILAND | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432723
Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number : 2944694-1

Page 1 of 1

Sample Number : 2432723-1
Sample Description : Emission from Stationary Source
Location : Gas Cracking Furnace stack (H-S120A)
Measurement Date : Apr 05, 2024

Stack Description	
Ambient Temperature	33 °C
Ambient Pressure	754 mmHg
Type of Process	Combustion
Type of Fuel	Fuel Gas
Diameter	2.40 m
Shape	Circle
Stack Temperature	131 °C
Moisture	16.52 %
Oxygen	2.04 %
Carbon dioxide	10.19 %
Gas Velocity	12.98 m/s
Flow Rate	129059 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:50 AM - 12:10 PM	2.04	10.18	35.42	26.10
2	12:11 PM - 12:31 PM	2.03	10.19	35.34	26.04
3	12:32 PM - 12:52 PM	2.05	10.20	35.82	26.42
Average (ppm)		2.04	10.19	35.53	26.19
Guideline ¹⁾ (ppm)				-	50
Guideline ²⁾ (ppm)				-	200
Result (mg/Nm ³)				66.84	49.27
Emission Rate at Actual O ₂ (g/s)				2.3961	
Guideline ¹⁾ (g/s)				3.00	
Method				US EPA Method 7E	

Sampled By : Worawich Tongpoom
Guideline :
¹⁾ Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.
²⁾ Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลขโทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
หมายเลขโทรศัพท์ 2-204-4702



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432723
Date Received : Apr 05, 2024
Date Reported : Apr 12, 2024
Report Number : 2944694-1

Page 1 of 1

Sample Number : 2432723-1
Sample Description : Emission from Stationary Source
Location : Gas Cracking Furnace stack (H-S120A)
Measurement Date : Apr 05, 2024

Stack Description	
Ambient Temperature	33 °C
Ambient Pressure	754 mmHg
Type of Process	Combustion
Type of Fuel	Fuel Gas
Diameter	2.40 m
Shape	Circle
Stack Temperature	131 °C
Moisture	16.52 %
Oxygen	2.04 %
Carbon dioxide	10.19 %
Gas Velocity	12.98 m/s
Flow Rate	129059 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	11:50 AM - 12:10 PM	2.04	10.18	0.07	0.05
2	12:11 PM - 12:31 PM	2.03	10.19	0.03	0.02
3	12:32 PM - 12:52 PM	2.05	10.20	0.03	0.02
Average (ppm)		2.04	10.19	0.04	0.03
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.05	0.04
Emission Rate at Actual O ₂ (g/s)				0.0017	
Method				US EPA Method 10	

Sampled By : Worawich Tongpoom
Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
หมายเลขโทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Sarayuth Jitranont
Assistant General Manager
หมายเลขโทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Soan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 5000 : FAX +66 0 2760 5197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PEOPLE. RIGHT PLACE.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Soan Luang, Bangkok 10250, THAILAND : PHONE +66 0 2760 5000 : FAX +66 0 2760 5197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PEOPLE. RIGHT PLACE.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432597
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2944546-2 Rev. No.1

Page 1 of 2

Sample Number 2432597-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 Boiler A
Date Analysis Commenced Apr 08, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	182	°C	Gas Velocity	14.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	14.14	%	Flow Rate (Actual O2)	132339	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 4.5 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	11:20 AM - 11:30 AM	ppm	-	0.4	1.3	1.53	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Suchada T.

Suchada Thammathaworn
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (2:37PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432597
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2944546-2 Rev. No.1

Page 2 of 2

Sample Number 2432597-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 Boiler A
Date Analysis Commenced Apr 08, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	182	°C	Gas Velocity	14.6	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	14.14	%	Flow Rate (Actual O2)	132339	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	11:20 AM - 11:30 AM	g/s	-	-	0.02	Calculated	Bangkok

Note:

This Analysis test report is reissued to supersede report No.2944546-2 Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Saiwan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Suchada T.

Suchada Thammathaworn
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (2:37PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432606
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971795-2

Page 1 of 2

Sample Number : 2432606-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 Boiler B
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	5.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.8	%
Type of Process	Combustion		Stack Temperature	198	°C	Gas Velocity	15.6	m/s
Type of Fuel	Fuel Gas+CXB		Moisture	13.96	%	Flow Rate (Actual O2)	137038	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Result at 5.2 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	02:25 PM - 02:35 PM	ppm	-	0.4	2.1	2.37	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Saranya C.

Saranya Chalermtamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT TIME

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4.07PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432606
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971795-2

Page 2 of 2

Sample Number : 2432606-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 Boiler B
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	5.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.8	%
Type of Process	Combustion		Stack Temperature	198	°C	Gas Velocity	15.6	m/s
Type of Fuel	Fuel Gas+CXB		Moisture	13.96	%	Flow Rate (Actual O2)	137038	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	02:25 PM - 02:35 PM	g/s	-	-	0.02	Calculated	Bangkok

Note:

This Analysis test report is reissued to supersede report No.2944559-2, Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Salwan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermtamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT TIME

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4.07PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432607
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971796-2

Page 1 of 2

Sample Number : 2432607-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 3 Boiler C
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.40	m	Oxygen	4.6	%
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	187	°C	Gas Velocity	14.8	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	12.49	%	Flow Rate (Actual O2)	135173	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 4.6 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	11:10 AM - 11:20 AM	ppm	-	0.4	0.6	0.70	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Saranya C.

Saranya Chalemthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4:11PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432607
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971796-2

Page 2 of 2

Sample Number : 2432607-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 3 Boiler C
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.40	m	Oxygen	4.6	%
Ambient Temperature	34.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	187	°C	Gas Velocity	14.8	m/s
Type of Fuel	Fuel Gas+CKB		Moisture	12.49	%	Flow Rate (Actual O2)	135173	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	11:10 AM - 11:20 AM	g/s	-	-	0.02	Calculated	Bangkok

Note:

This Analysis test report is reissued to supersede report No.2944558-1, Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Sarwan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalemthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4:11PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432608
Date Received : Apr 03, 2024
Date Reported : Apr 10, 2024
Report Number: 2944557-2

Page 1 of 2

Sample Number 2432608-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 8 (H-100H)
Date Analysis Commenced Apr 04, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.9	m/s
Type of Fuel	Fuel Gas		Moisture	12.81	%	Flow Rate (Actual O2)	194023	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 6.0 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	11:35 AM - 11:45 AM	ppm		0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Saranya C.

Saranya Chalemthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT SERVICE

7497-51/ EMAIL

S:\Reports\Air_Stack_O2_NoGL.rpt (6:25PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432608
Date Received : Apr 03, 2024
Date Reported : Apr 10, 2024
Report Number: 2944557-2

Page 2 of 2

Sample Number 2432608-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 8 (H-100H)
Date Analysis Commenced Apr 04, 2024
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	25.9	m/s
Type of Fuel	Fuel Gas		Moisture	12.81	%	Flow Rate (Actual O2)	194023	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	11:35 AM - 11:45 AM	g/s			<0.03	Calculated	Bangkok

Sampled By : Jeerasuk Sriwichai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalemthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT SERVICE

7497-51/ EMAIL

S:\Reports\Air_Stack_O2_NoGL.rpt (6:25PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432614
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944601-1

Page 1 of 2

Sample Number : 2432614-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 1 H-100A
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.5	%
Type of Process	Combustion		Stack Temperature	134	°C	Gas Velocity	16.6	m/s
Type of Fuel	Fuel Gas		Moisture	19.35	%	Flow Rate (Actual O2)	109765	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 4.5 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	12:10 PM - 12:20 PM	ppm	-	0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong

Approved by

Thanitak

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Stack_O2_NoGL.rpt (3.58PM)

7497-51/ EMAIL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432614
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944601-1

Page 2 of 2

Sample Number : 2432614-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 1 H-100A
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.5	%
Type of Process	Combustion		Stack Temperature	134	°C	Gas Velocity	16.6	m/s
Type of Fuel	Fuel Gas		Moisture	19.35	%	Flow Rate (Actual O2)	109765	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	12:10 PM - 12:20 PM	g/s	-	-	<0.012	Calculated	Rayong

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanitak

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (3.58PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432629
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944600-1

Page 1 of 2

Sample Number : 2432629-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Date Analysis Commenced : Apr 10, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.7	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.4	%
Type of Process	Combustion		Stack Temperature	109	°C	Gas Velocity	17.2	m/s
Type of Fuel	Fuel Gas		Moisture	13.53	%	Flow Rate (Actual O2)	129948	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	10:20 AM - 10:30 AM	ppm	—	0.4	2.5	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong
------------------------------	---------------------	-----	---	-----	-----	--	--------

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT TIME

7497-51/EMAIL

S:\Reports\Air Stack_NGL.rpt (10.55AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432629
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944600-1

Page 2 of 2

Sample Number : 2432629-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Date Analysis Commenced : Apr 10, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.7	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.4	%
Type of Process	Combustion		Stack Temperature	109	°C	Gas Velocity	17.2	m/s
Type of Fuel	Fuel Gas		Moisture	13.53	%	Flow Rate (Actual O2)	129948	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	10:20 AM - 10:30 AM	g/s	—	—	0.051	Calculated	Rayong
------------------------------	---------------------	-----	---	---	-------	------------	--------

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT TIME

7497-51/EMAIL

S:\Reports\Air Stack_NGL.rpt (10.55AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432630
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944599-1

Page 1 of 2

Sample Number 2432630-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 3 H-100C
Date Analysis Commenced Apr 04, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.2	%
Type of Process	Combustion		Stack Temperature	99.0	°C	Gas Velocity	17.6	m/s
Type of Fuel	Fuel Gas		Moisture	12.35	%	Flow Rate (Actual O2)	138509	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 6.6 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	12:00 PM - 12:10 PM	ppm	-	0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong

Approved by

Thanita K.

Thanita Kulsumwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (3 59PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432630
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944599-1

Page 2 of 2

Sample Number 2432630-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 3 H-100C
Date Analysis Commenced Apr 04, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.2	%
Type of Process	Combustion		Stack Temperature	99.0	°C	Gas Velocity	17.6	m/s
Type of Fuel	Fuel Gas		Moisture	12.35	%	Flow Rate (Actual O2)	138509	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	12:00 PM - 12:10 PM	g/s	-	-	<0.015	Calculated	Rayong

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsumwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (3 59PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432631
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944598-1

Page 1 of 2

Sample Number : 2432631-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 4 H-100D
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	3.8	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.5	%
Type of Process	Combustion		Stack Temperature	98.0	°C	Gas Velocity	16.8	m/s
Type of Fuel	Fuel Gas		Moisture	14.65	%	Flow Rate (Actual O2)	129175	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 3.8 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	01:30 PM - 01:40 PM	ppm	---	0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4:10PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432631
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944598-1

Page 2 of 2

Sample Number : 2432631-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 4 H-100D
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	3.8	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	8.5	%
Type of Process	Combustion		Stack Temperature	98.0	°C	Gas Velocity	16.8	m/s
Type of Fuel	Fuel Gas		Moisture	14.65	%	Flow Rate (Actual O2)	129175	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	01:30 PM - 01:40 PM	g/s	---	---	<0.014	Calculated	Rayong

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (4:10PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432632
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944590-1

Page 1 of 2

Sample Number 2432632-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 5 H-100E
Date Analysis Commenced Apr 10, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.9	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	17.1	m/s
Type of Fuel	Fuel Gas		Moisture	12.51	%	Flow Rate (Actual O2)	132748	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	11:40 AM - 11:50 AM	ppm	—	0.4	0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong
------------------------------	---------------------	-----	---	-----	-----	--	--------

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-S1 EMAIL

S:\Reports_Air Stack_NGL.rpt (10:56AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432632
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944590-1

Page 2 of 2

Sample Number 2432632-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 5 H-100E
Date Analysis Commenced Apr 10, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	6.2	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.9	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	17.1	m/s
Type of Fuel	Fuel Gas		Moisture	12.51	%	Flow Rate (Actual O2)	132748	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	11:40 AM - 11:50 AM	g/s	—	—	0.009	Calculated	Rayong
------------------------------	---------------------	-----	---	---	-------	------------	--------

Sampled By : Anecha Tansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-S1 EMAIL

S:\Reports_Air Stack_NGL.rpt (10:56AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432633
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944589-1

Page 1 of 2

Sample Number : 2432633-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 6 H-100F
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.8	%
Type of Process	Combustion		Stack Temperature	106	°C	Gas Velocity	17.2	m/s
Type of Fuel	Fuel Gas		Moisture	13.04	%	Flow Rate (Actual O2)	131390	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 4.5 % O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------------------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	01:10 PM - 01:20 PM	ppm	-	0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong
------------------------------	---------------------	-----	---	-----	------	------	--	--------

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS FOR EVERY PROBLEM

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (4.14PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432633
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944589-1

Page 2 of 2

Sample Number : 2432633-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 6 H-100F
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	2.00	m	Oxygen	4.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.8	%
Type of Process	Combustion		Stack Temperature	106	°C	Gas Velocity	17.2	m/s
Type of Fuel	Fuel Gas		Moisture	13.04	%	Flow Rate (Actual O2)	131390	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	01:10 PM - 01:20 PM	g/s	-	-	<0.015	Calculated	Rayong
------------------------------	---------------------	-----	---	---	--------	------------	--------

Sampled By : Jeerasuk Sriwichai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsurwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS FOR EVERY PROBLEM

7497-51/EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (4.14PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432634
Date Received : Jun 27, 2024
Date Reported : Jul 05, 2024
Report Number: 2944585-1

Page 1 of 2

Sample Number : 2432634-1
Sampled Date : Jun 27, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Date Analysis Commenced : Jun 28, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	755	mmHg	Diameter	2.00	m	Oxygen	3.2	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	99.5	°C	Gas Velocity	17.5	m/s
Type of Fuel	Fuel Gas		Moisture	14.87	%	Flow Rate (Actual O2)	133580	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 3.2 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	12:10 PM - 12:20 PM	ppm	-	0.4	0.5	0.64	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (8:34AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432634
Date Received : Jun 27, 2024
Date Reported : Jul 05, 2024
Report Number: 2944585-1

Page 2 of 2

Sample Number : 2432634-1
Sampled Date : Jun 27, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Date Analysis Commenced : Jun 28, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	755	mmHg	Diameter	2.00	m	Oxygen	3.2	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	99.5	°C	Gas Velocity	17.5	m/s
Type of Fuel	Fuel Gas		Moisture	14.87	%	Flow Rate (Actual O2)	133580	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	12:10 PM - 12:20 PM	g/s	-	-	0.02	Calculated	Bangkok

Sampled By : Anuvat Moungrai

Remark :

-- LOD : Limit of Detection
-- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Stack_O2_NoGL.rpt (8:34AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432635
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944581-1

Page 1 of 2

Sample Number : 2432635-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	1.50	m	Oxygen	1.9	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.6	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	27.1	m/s
Type of Fuel	Fuel Gas		Moisture	17.85	%	Flow Rate (Actual O2)	101022	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 1.9 %O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	10:20 AM - 10:30 AM	ppm	-	0.4	<0.4	<0.4	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports_Air Stack_O2_NoGL.rpt (4.17PM)

7497-51/EMAIL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432635
Date Received : Apr 03, 2024
Date Reported : Apr 09, 2024
Report Number: 2944581-1

Page 2 of 2

Sample Number : 2432635-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Date Analysis Commenced : Apr 04, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	752	mmHg	Diameter	1.50	m	Oxygen	1.9	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.6	%
Type of Process	Combustion		Stack Temperature	139	°C	Gas Velocity	27.1	m/s
Type of Fuel	Fuel Gas		Moisture	17.85	%	Flow Rate (Actual O2)	101022	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	10:20 AM - 10:30 AM	g/s	-	-	<0.011	Calculated	Rayong

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports_Air Stack_O2_NoGL.rpt (4.17PM)

7497-51/EMAIL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432636
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944578-1

Page 1 of 2

Sample Number 2432636-1
Sampled Date Apr 05, 2024
Sample Description Emission from Stationary Source
Location GHU II
Date Analysis Commenced Apr 10, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	1.40	m	Oxygen	13.3	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	276	°C	Gas Velocity	8.3	m/s
Type of Fuel	Fuel Gas		Moisture	13.16	%	Flow Rate (Actual O2)	21614	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	03:40 PM - 03:50 PM	ppm	-	0.4	1.9	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong
------------------------------	---------------------	-----	---	-----	-----	--	--------

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khua A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_NGL.rpt (10:54AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432636
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944578-1

Page 2 of 2

Sample Number 2432636-1
Sampled Date Apr 05, 2024
Sample Description Emission from Stationary Source
Location GHU II
Date Analysis Commenced Apr 10, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	1.40	m	Oxygen	13.3	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	4.0	%
Type of Process	Combustion		Stack Temperature	276	°C	Gas Velocity	8.3	m/s
Type of Fuel	Fuel Gas		Moisture	13.16	%	Flow Rate (Actual O2)	21614	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	03:40 PM - 03:50 PM	g/s	-	-	0.003	Calculated	Rayong
------------------------------	---------------------	-----	---	---	-------	------------	--------

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khua A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/EMAIL

S:\Reports_Air Stack_NGL.rpt (10:54AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432637
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944573-1

Page 1 of 2

Sample Number : 2432637-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : OCU Feed Heater (H-760)
Date Analysis Commenced : Apr 10, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	1.70	m	Oxygen	9.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.0	%
Type of Process	Combustion		Stack Temperature	248	°C	Gas Velocity	5.5	m/s
Type of Fuel	Fuel Gas		Moisture	11.80	%	Flow Rate (Actual O2)	22602	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
---------	--------------	------	-----	-----------	-----------------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	04:30 PM - 04:40 PM	ppm	—	0.4	2.6	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Rayong
------------------------------	---------------------	-----	---	-----	-----	--	--------

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Air_Stack_NGL.rpt (10:58AM)

7487-51/ EMAIL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432637
Date Received : Apr 09, 2024
Date Reported : Apr 12, 2024
Report Number: 2944573-1

Page 2 of 2

Sample Number : 2432637-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : OCU Feed Heater (H-760)
Date Analysis Commenced : Apr 10, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	1.70	m	Oxygen	9.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.0	%
Type of Process	Combustion		Stack Temperature	248	°C	Gas Velocity	5.5	m/s
Type of Fuel	Fuel Gas		Moisture	11.80	%	Flow Rate (Actual O2)	22602	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
---------	--------------	------	-----	-----------	----------------------	--------	------------------

Air Testing

Total Hydrocarbon as Propane	04:30 PM - 04:40 PM	g/s			0.007	Calculated	Rayong
------------------------------	---------------------	-----	--	--	-------	------------	--------

Sampled By : AnechaTansamai

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Thanita K.

Thanita Kulsunwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7487-51/ EMAIL

S:\Report\Air_Stack_NGL.rpt (10:58AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432638
Date Received : May 31, 2024
Date Reported : Jun 08, 2024
Report Number: 2944566-1

Page 1 of 2

Sample Number 2432638-1
Sampled Date May 30, 2024
Sample Description Emission from Stationary Source
Location OCU Regeneration Heater (H-761)
Date Analysis Commenced Jun 03, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	758	mmHg	Diameter	0.85	m	Oxygen	7.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.6	%
Type of Process	Combustion		Stack Temperature	688	°C	Gas Velocity	7.4	m/s
Type of Fuel	Fuel Gas		Moisture	9.50	%	Flow Rate (Actual O2)	4213	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 7.6 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	11:30 AM - 11:40 AM	ppm	—	0.4	0.7	0.67	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Saranya C.

Saranya Chalemithamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (9:58AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432638
Date Received : May 31, 2024
Date Reported : Jun 08, 2024
Report Number: 2944566-1

Page 2 of 2

Sample Number 2432638-1
Sampled Date May 30, 2024
Sample Description Emission from Stationary Source
Location OCU Regeneration Heater (H-761)
Date Analysis Commenced Jun 03, 2024
Condition of Sample Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	758	mmHg	Diameter	0.85	m	Oxygen	7.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	6.6	%
Type of Process	Combustion		Stack Temperature	688	°C	Gas Velocity	7.4	m/s
Type of Fuel	Fuel Gas		Moisture	9.50	%	Flow Rate (Actual O2)	4213	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	11:30 AM - 11:40 AM	g/s	—	—	0.0007	Calculated	Bangkok

Sampled By : Khanetson Khamphet

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalemithamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_O2_NoGL.rpt (9:58AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432639
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971797-1

Page 1 of 2

Sample Number : 2432639-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : Gas Cracking Furnace stack (H-S120A)
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	2.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	131	°C	Gas Velocity	13.3	m/s
Type of Fuel	Fuel Gas		Moisture	16.52	%	Flow Rate (Actual O2)	131965	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Result at 2.0 % O ₂	Method	Testing Location
Air Testing								
Total Hydrocarbon as Propane	11:50 AM - 12:00 PM	ppm	—	0.4	10.5	14.28	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok

Approved by

Saranya C.

Saranya Chalermtthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

2497-51/ EMAIL

S:\Report\Air Stack_O2_NoGL.rpt (4:11PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432639
Date Received : Apr 05, 2024
Date Reported : Apr 23, 2024
Report Number: 2971797-1

Page 2 of 2

Sample Number : 2432639-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : Gas Cracking Furnace stack (H-S120A)
Date Analysis Commenced : Apr 08, 2024
Condition of Sample : Extracted into one 10-L air sampling bag

Stack Description

Ambient Pressure	754	mmHg	Diameter	2.40	m	Oxygen	2.0	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	10.2	%
Type of Process	Combustion		Stack Temperature	131	°C	Gas Velocity	13.3	m/s
Type of Fuel	Fuel Gas		Moisture	16.52	%	Flow Rate (Actual O2)	131965	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Method	Testing Location
Air Testing							
Total Hydrocarbon as Propane	11:50 AM - 12:00 PM	g/s	—	—	0.02	Calculated	Bangkok

Note:

This Analysis test report is reissued to supersede report No.2944561-1, Date Reported : Apr 12, 2024 due to revise analytical information.

Sampled By : Kritsana Sawan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermtthamrong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

2497-51/ EMAIL

S:\Report\Air Stack_O2_NoGL.rpt (4:11PM)

ตรวจวัดความเข้มข้นของ Total VOCs
ที่ระบายออกจากระบบบำบัดน้ำเสียของแต่ละหน่วยบำบัด
ที่มีการติดตั้งระบบ Carbon Canister



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2435171

Date Received : May 02, 2024

Date Reported : May 07, 2024

Report Number : 2948257-1

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Page 1 of 1

Sample Number : 2435171-1 to 7
Sample Description : Total VOC Fugitive
Sampled Date : May 02, 2024
Sampled by : Norranon Tathongkham

No.	Location	Equipment	Service	Total VOCs (ppm)
1	Oily Wastewater Holding Tank	Flange and Connector	Gas Vapour	0.0
2	CPI Separator	Flange and Connector	Gas Vapour	0.0
3	Dissolved Floatation Tank	Flange and Connector	Gas Vapour	0.0
4	Slop Oil Tank	Flange and Connector	Gas Vapour	0.0
5	Spent Caustic Drain Drum	Sampling Connection	Gas Vapour	0.0
6	Caustic Drain Drum	Flange and Connector	Gas Vapour	0.0
7	Sludge Pit	Flange and Connector	Gas Vapour	0.0

Reference Method : US EPA Method 21

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuth Jittrantont
Assistant General Manager

ตรวจวัดความเข้มข้น Mixed Xylene ที่ระบายออกจากระบบ
Carbon Canister ที่ Truck Loading



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432753
Date Received : Apr 05, 2024
Date Reported : Apr 20, 2024
Report Number: 2958907-1

Page 1 of 1

Sample Number 2432753-1
Sampled Date Apr 03, 2024
Sample Description Emission from Stationary Source
Location Truck Loading
Date Analysis Commenced Apr 06, 2024
Condition of Sample Extracted into one sorbent tube, refrigerated

Stack Description

Ambient Pressure	754	mmHg	Diameter	0.33	m	Oxygen	20.6	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	0.2	%
Type of Process	Process		Stack Temperature	-	°C	Gas Velocity	-	m/s
Type of Fuel	-		Moisture	-	%	Flow Rate (Actual O2)	-	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Xylene	11:20 AM - 11:45 AM	ppm	-	0.3	<0.3	200	United States Environmental Protection Agency, EPA Method 18	Bangkok

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Kritsana Saiwan

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Saranya C.
Saranya Chalermtamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-0011

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Stack_GL.rpt (3:44PM)

ใบรับรองผลการตรวจสอบความถูกต้องของการทำงาน
ของระบบ CEMs (Audit CEMs)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418389
Date Received : Apr 05, 2024
Date Reported : Apr 25, 2024
Report Number : 2913089-1

Sample Number : 2418389-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 1 (Boiler A)
Parameter : NOx

Page 1 of 1

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	04 Apr 24	11:10	11:30	66.53	63.81	55.95	54.45	-1.50
2	04 Apr 24	11:31	11:51	67.93	65.01	56.63	55.07	-1.57
3	04 Apr 24	11:52	12:12	67.75	64.75	56.57	54.95	-1.62
4	04 Apr 24	12:13	12:33	61.95	59.09	53.86	52.45	-1.41
5	04 Apr 24	12:34	12:54	55.33	51.64	47.81	45.63	-2.19
6	04 Apr 24	12:55	13:15	60.15	56.24	50.81	48.16	-2.65
7	04 Apr 24	13:16	13:36	62.02	57.06	52.49	48.99	-3.51
8	04 Apr 24	13:37	13:57	62.55	57.49	52.95	49.42	-3.54
9*	04 Apr 24	13:58	14:18	62.57	57.37	52.88	49.29	-3.59
10*	04 Apr 24	14:19	14:39	62.73	57.47	53.01	49.40	-3.62
11*	04 Apr 24	14:40	15:00	62.85	57.54	53.11	49.46	-3.64
12	04 Apr 24	15:01	15:21	62.37	57.23	52.74	49.21	-3.53
Average						53.31	50.92	-2.39
Confidence Coefficient (CC)								0.72
Relative Accuracy (Compared with RM) (%)								6.11
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 204-61702

The above results are valid only for the analysed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7499 51/0906

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEMs\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418389
Date Received : Apr 05, 2024
Date Reported : Apr 25, 2024
Report Number : 2913089-1

Sample Number : 2418389-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 1 (Boiler A)
Parameter : SO2

Page 2 of 1

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	04 Apr 24	11:10	11:30	5.56	8.63	4.68	7.36	2.68
2*	04 Apr 24	11:31	11:51	5.82	8.53	4.85	7.23	2.38
3*	04 Apr 24	11:52	12:12	7.84	9.73	6.55	8.26	1.71
4	04 Apr 24	12:13	12:33	4.86	6.66	4.23	5.91	1.69
5	04 Apr 24	12:34	12:54	0.03	0.92	0.02	0.81	0.79
6	04 Apr 24	12:55	13:15	0.02	0.48	0.02	0.41	0.39
7	04 Apr 24	13:16	13:36	0.01	0.44	0.01	0.38	0.37
8	04 Apr 24	13:37	13:57	0.00	0.43	0.00	0.37	0.37
9	04 Apr 24	13:58	14:18	0.00	0.41	0.00	0.36	0.35
10	04 Apr 24	14:19	14:39	0.00	0.41	0.00	0.35	0.35
11	04 Apr 24	14:40	15:00	0.00	0.41	0.00	0.35	0.34
12	04 Apr 24	15:01	15:21	0.01	0.40	0.01	0.34	0.33
Average						0.48	1.03	0.55
Confidence Coefficient (CC)								0.34
Relative Accuracy (Compared with Emission Standard : 172 ppm) (%)								0.52
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 172 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 204-61702

The above results are valid only for the analysed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7499 51/0906

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEMs\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418389
Date Received : Apr 05, 2024
Date Reported : Apr 25, 2024
Report Number : 2913089-1

Page 3 of 3

Sample Number 2418389-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 (Boiler A)
Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	04 Apr 24	11:10	11:30	4.37	4.61	0.24
2	04 Apr 24	11:31	11:51	4.23	4.49	0.26
3	04 Apr 24	11:52	12:12	4.25	4.52	0.27
4*	04 Apr 24	12:13	12:33	4.91	5.24	0.33
5*	04 Apr 24	12:34	12:54	4.81	5.17	0.35
6	04 Apr 24	12:55	13:15	4.45	4.67	0.22
7	04 Apr 24	13:16	13:36	4.48	4.71	0.23
8	04 Apr 24	13:37	13:57	4.48	4.73	0.25
9	04 Apr 24	13:58	14:18	4.45	4.72	0.27
10	04 Apr 24	14:19	14:39	4.45	4.73	0.28
11*	04 Apr 24	14:40	15:00	4.45	4.73	0.28
12	04 Apr 24	15:01	15:21	4.46	4.73	0.27
Average				4.40	4.66	0.25
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.25
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Worawich Tongpoom

Technical Management

Wichan Choonharat
Manager

เบอร์โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

เบอร์โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that the report is not reproduced except in full.
ADDRESS 104 Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 1800 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418392
Date Received: Apr 05, 2024
Date Reported: Apr 23, 2024
Report Number: 2913100-2

Page 1 of 2

Sample Number 2418392-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 1 (Boiler A)
Parameter Relative Response Audit

Relative Response Audit Test Report

Run No.	Date	Time		CEMS Values		RM Values	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m³)	(mg/m³ at 7%O₂)	Minimum	Maximum	
1	4-Apr-24	10:10	10:52	25.03	3.64	3.3	-49.86	57.14	Pass
2	4-Apr-24	11:10	11:52	25.05	3.64	3.7	-49.86	57.14	Pass
3	4-Apr-24	12:00	12:42	23.56	3.31	2.2	-50.19	56.81	Pass

Remark: -Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)

-Correlation Equation of Linear curve Y = 0.2243X - 1.9756

-Emission limit 214 mg/m3 from Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

Technical Management

Wichan Choonharat
Manager
เบอร์โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
เบอร์โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497.531.FM04

S:\Report\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418392

Date Received: Apr 05, 2024

Date Reported: Apr 23, 2024

Report Number: 2913100-2

Page 2 of 2

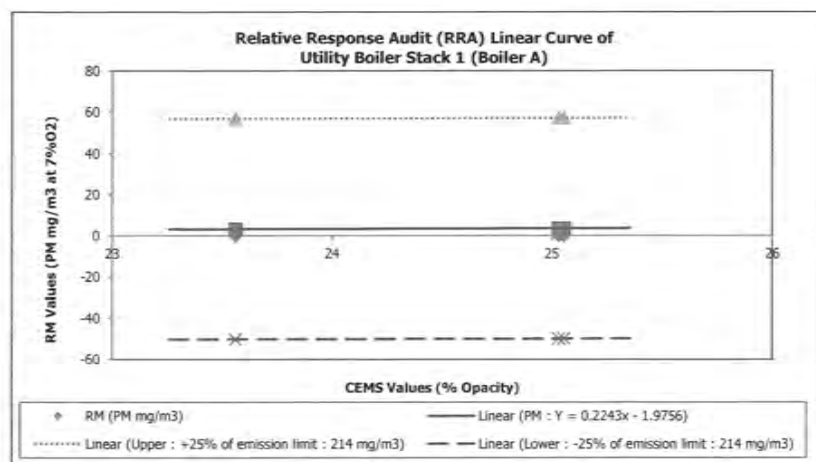
Sample Number 2418392-1

Sampled Date Apr 04, 2024

Sample Description Emission from Stationary Source

Location Utility Boiler Stack 1 (Boiler A)

Parameter Relative Response Audit



Sampled By : Kritsana Saiwan

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ ๖-204-๖-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ ๖-204-๖-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

T001A37 F0006

S:\Report\Stack_CEM1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418398

Date Received : Mar 22, 2024

Date Reported : Apr 06, 2024

Report Number : 2913094-1

Page 1 of 3

Sample Number 2418398-1

Sampled Date Mar 21, 2024

Sample Description Emission from Stationary Source

Location Utility Boiler Stack 2 (Boiler B)

Parameter NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	21 Mar 24	10:40	11:00	58.30	56.90	51.13	48.23	-2.89
2	21 Mar 24	11:01	11:21	58.40	58.15	51.33	49.39	-1.94
3	21 Mar 24	11:22	11:42	58.36	58.36	51.40	49.65	-1.75
4	21 Mar 24	11:43	12:03	58.96	59.64	51.69	50.63	-1.06
5	21 Mar 24	12:04	12:24	58.68	60.24	51.55	51.16	-0.40
6	21 Mar 24	12:25	12:45	59.19	61.09	51.95	51.90	-0.06
7	21 Mar 24	12:46	13:06	59.18	61.87	51.89	52.53	0.64
8	21 Mar 24	13:07	13:27	59.46	62.64	52.16	53.17	1.01
9	21 Mar 24	13:28	13:48	59.00	62.30	51.91	52.90	0.99
10	21 Mar 24	13:49	14:09	57.32	61.40	50.76	52.60	1.84
11*	21 Mar 24	14:10	14:30	56.14	61.43	49.97	52.76	2.79
12*	21 Mar 24	14:31	14:51	56.03	62.00	49.24	52.65	3.42
Average						51.63	51.55	-0.08
Confidence Coefficient (CC)								1.01
Relative Accuracy (Compared with RM) (%)								2.12
Relative Accuracy Criteria ¹⁾ (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

¹⁾ Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ ๖-204-๖-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ ๖-204-๖-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

T001A37 F0006

S:\Report\Stack_CEM1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418398

Date Received : Mar 22, 2024

Date Reported : Apr 06, 2024

Report Number : 2913094-1

Sample Number : 2418398-1
Sampled Date : Mar 21, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 (Boiler B)
Parameter : SO2

Page 2 of 3

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	21 Mar 24	10:40	11:00	0.01	0.06	0.01	0.05	0.04
2	21 Mar 24	11:01	11:21	0.01	0.33	0.01	0.28	0.26
3	21 Mar 24	11:22	11:42	0.01	0.33	0.01	0.28	0.26
4*	21 Mar 24	11:43	12:03	0.03	0.40	0.02	0.34	0.31
5	21 Mar 24	12:04	12:24	0.02	0.28	0.02	0.24	0.22
6	21 Mar 24	12:25	12:45	0.02	0.26	0.02	0.22	0.20
7	21 Mar 24	12:46	13:06	0.02	0.34	0.01	0.29	0.28
8*	21 Mar 24	13:07	13:27	0.02	0.40	0.02	0.34	0.32
9*	21 Mar 24	13:28	13:48	0.02	0.43	0.02	0.37	0.34
10	21 Mar 24	13:49	14:09	0.02	0.12	0.02	0.10	0.08
11	21 Mar 24	14:10	14:30	0.02	0.03	0.02	0.03	0.01
12	21 Mar 24	14:31	14:51	0.04	0.03	0.03	0.03	-0.01
Average						0.02	0.17	0.15
Confidence Coefficient (CC)								0.09
Relative Accuracy (Compared with Emission Standard : 172 ppm) (%)								0.14
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 172 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 0-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 0-204-61702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT

S:\Reports\Stack_CEMs.rpt

799-557948



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418398

Date Received : Mar 22, 2024

Date Reported : Apr 06, 2024

Report Number : 2913094-1

Sample Number : 2418398-1
Sampled Date : Mar 21, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 2 (Boiler B)
Parameter : O2

Page 3 of 3

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	21 Mar 24	10:40	11:00	5.05	4.50	-0.55
2	21 Mar 24	11:01	11:21	5.08	4.53	-0.55
3*	21 Mar 24	11:22	11:42	5.12	4.56	-0.56
4	21 Mar 24	11:43	12:03	5.05	4.53	-0.52
5	21 Mar 24	12:04	12:24	5.08	4.53	-0.55
6	21 Mar 24	12:25	12:45	5.06	4.54	-0.53
7	21 Mar 24	12:46	13:06	5.05	4.53	-0.52
8	21 Mar 24	13:07	13:27	5.06	4.52	-0.53
9*	21 Mar 24	13:28	13:48	5.10	4.53	-0.57
10	21 Mar 24	13:49	14:09	5.20	4.67	-0.53
11*	21 Mar 24	14:10	14:30	5.29	4.72	-0.57
12	21 Mar 24	14:31	14:51	5.08	4.53	-0.55
Average				5.08	4.54	-0.54
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.54
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussaree Namburee

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 0-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 0-204-61702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT

S:\Reports\Stack_CEMs.rpt

799-557948



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418399

Date Received : Apr 05, 2024

Date Reported : Apr 25, 2024

Report Number : 2913091-1

Sample Number : 2418399-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 3 (Boiler C)
Parameter : NOx

Page 1 of 3

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	02 Apr 24	11:30	11:50	66.29	68.29	58.30	58.27	-0.04
2	02 Apr 24	11:51	12:11	65.93	68.26	58.07	58.08	0.01
3	02 Apr 24	12:12	12:32	66.32	68.09	58.22	58.30	0.08
4	02 Apr 24	12:33	12:53	60.06	56.64	55.62	51.71	-3.91
5	02 Apr 24	12:54	13:14	62.37	56.97	55.36	50.38	-4.98
6	02 Apr 24	13:15	13:35	65.02	59.08	56.05	50.67	-5.38
7	02 Apr 24	13:36	13:56	65.83	58.95	56.73	50.54	-6.19
8	02 Apr 24	13:57	14:17	65.80	58.58	57.44	50.89	-6.55
9	02 Apr 24	14:18	14:38	66.21	59.08	57.85	51.35	-6.50
10*	02 Apr 24	14:39	14:59	65.61	58.28	57.21	50.64	-6.57
11*	02 Apr 24	15:00	15:20	64.75	57.05	56.55	49.59	-6.96
12*	02 Apr 24	15:21	15:41	64.33	56.57	56.15	49.20	-6.95
Average						57.07	53.35	-3.72
Confidence Coefficient (CC)								2.24
Relative Accuracy (Compared with RM) (%)								11.17
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ 2-204-ก-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

ทะเบียนเลขที่ 2-204-ก-4702

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that the report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\reports\Stack_CPM2.gr

000-5510000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418399

Date Received : Apr 05, 2024

Date Reported : Apr 25, 2024

Report Number : 2913091-1

Sample Number : 2418399-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Utility Boiler Stack 3 (Boiler C)
Parameter : SO2

Page 2 of 3

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	02 Apr 24	11:30	11:50	8.62	14.70	7.58	12.54	4.96
2*	02 Apr 24	11:51	12:11	9.61	14.68	8.46	12.49	4.03
3*	02 Apr 24	12:12	12:32	10.57	14.72	9.28	12.60	3.33
4	02 Apr 24	12:33	12:53	5.25	6.21	4.86	5.67	0.81
5	02 Apr 24	12:54	13:14	0.01	0.63	0.01	0.56	0.55
6	02 Apr 24	13:15	13:35	0.00	0.36	0.00	0.31	0.30
7	02 Apr 24	13:36	13:56	0.01	0.17	0.01	0.15	0.14
8	02 Apr 24	13:57	14:17	0.01	0.06	0.01	0.06	0.05
9	02 Apr 24	14:18	14:38	0.01	0.03	0.01	0.02	0.01
10	02 Apr 24	14:39	14:59	0.02	0.06	0.01	0.06	0.04
11	02 Apr 24	15:00	15:20	0.02	0.08	0.02	0.07	0.06
12	02 Apr 24	15:21	15:41	0.02	0.11	0.01	0.10	0.08
Average						0.55	0.78	0.23
Confidence Coefficient (CC)								0.21
Relative Accuracy (Compared with Emission Standard : 172 ppm) (%)								0.26
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 6C

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of SO2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 172 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ 2-204-ก-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

ทะเบียนเลขที่ 2-204-ก-4702

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that the report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\reports\Stack_CPM2.gr

000-5510000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418399

Date Received : Apr 05, 2024

Date Reported : Apr 25, 2024

Report Number : 2913091-1

Page 3 of 3

Sample Number 2418399-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 (Boiler C)
Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	02 Apr 24	11:30	11:50	5.10	4.61	-0.49
2*	02 Apr 24	11:51	12:11	5.12	4.56	-0.55
3*	02 Apr 24	12:12	12:32	5.07	4.67	-0.40
4	02 Apr 24	12:33	12:53	5.89	5.68	-0.22
5	02 Apr 24	12:54	13:14	5.24	5.18	-0.06
6	02 Apr 24	13:15	13:35	4.77	4.69	-0.08
7	02 Apr 24	13:36	13:56	4.77	4.69	-0.08
8	02 Apr 24	13:57	14:17	4.98	4.90	-0.08
9	02 Apr 24	14:18	14:38	4.99	4.91	-0.08
10	02 Apr 24	14:39	14:59	4.96	4.90	-0.06
11	02 Apr 24	15:00	15:20	4.99	4.91	-0.08
12	02 Apr 24	15:21	15:41	4.98	4.92	-0.06
Average				5.06	4.97	-0.09
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.09
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Worawich Tongpoom

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 02-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 02-204-6113

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without permission from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 5000 FAX: +66 0 2760 5197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SENSORS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE

S:\Report\Stack_CEM\11.gst



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418407

Date Received: Mar 22, 2024

Date Reported: Apr 06, 2024

Report Number: 2946703-1

Page 1 of 2

Sample Number 2418407-1
Sampled Date Mar 21, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 2 (Boiler B)
Parameter Relative Response Audit

Relative Response Audit Test Report

Run No.	Date	Time		CEMS Values		RM Values	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m ³)	(mg/m ³ at 7%O ₂)	Minimum	Maximum	
1	21-Mar-24	10:40	11:28	18.05	3.95	0.42	-49.55	57.45	Pass
2	21-Mar-24	11:40	12:28	19.01	4.29	0.17	-49.21	57.79	Pass
3	21-Mar-24	12:40	13:28	17.91	3.90	0.25	-49.60	57.40	Pass

Remark: -Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)

-Correlation Equation of Linear curve Y = 0.3608X - 2.5653

-Emission limit 214 mg/m3 from Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 02-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 02-204-6113

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 5000 FAX: +66 0 2760 5197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SENSORS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE

S:\Report\Stack_CEM\11.gst

S:\Report\Stack_CEM\11.gst



Analysis / Test Report

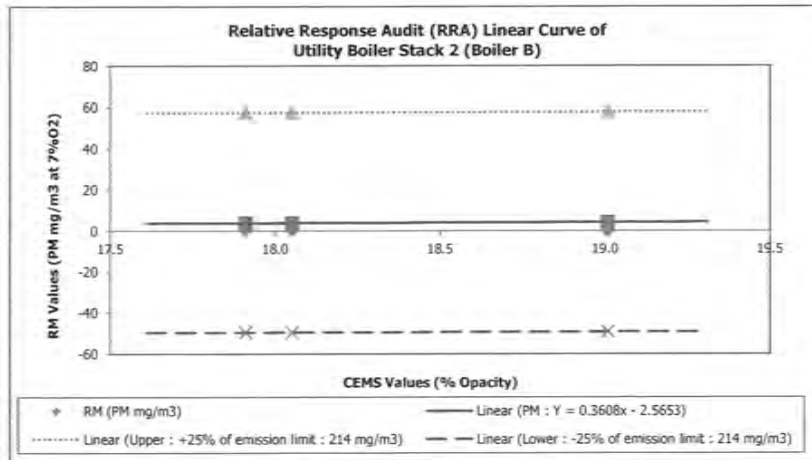
Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418407
Date Received: Mar 22, 2024
Date Reported: Apr 06, 2024
Report Number: 2946703-1

Page 2 of 2

Sample Number 2418407-1
Sampled Date Mar 21, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 2 (Boiler B)
Parameter Relative Response Audit



Sampled By : Jeerasuk Sniwichai

Technical Management Wichan Chonharat
Wichan Chonharat
Manager
โทรศัพท์มือถือ 01-204-8-6113

Approved by Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
โทรศัพท์มือถือ 01-204-8-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2946703-1

S:\Report\Stack_CEM\1.pdf



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418408
Date Received: Apr 05, 2024
Date Reported: Apr 23, 2024
Report Number: 2913106-2

Page 1 of 2

Sample Number 2418408-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 (Boiler C)
Parameter Relative Response Audit

Relative Response Audit Test Report

Run No.	Date	Time		CEMS Values		RM Values	Allowable Range		Criterion
		Start	Stop	(%Opacity)	(mg/m ³)	(mg/m ³ at 7%O ₂)	Minimum	Maximum	
1	2-Apr-24	11:10	11:52	21.02	7.21	5.7	-46.29	60.71	Pass
2	2-Apr-24	12:00	12:42	20.10	6.60	2.0	-46.90	60.10	Pass
3	2-Apr-24	12:50	13:32	19.60	6.28	1.6	-47.22	59.78	Pass

Remark: -Relative Response Audit is refer to 40 CFR Part 60 Appendix B : Performance Specification 11 : Specifications and Test Procedures for
Particulate Matter Continuous Emission Monitoring Systems at Stationary Source (PS-11)
-Correlation Equation of Linear curve Y = 0.6571X - 6.6043
-Emission limit 214 mg/m3 from Environmental Impact Assessment Report of Map Ta Phut Olefins Co., Ltd.

Technical Management Wichan Chonharat
Wichan Chonharat
Manager
โทรศัพท์มือถือ 01-204-8-6113

Approved by Sarayuth Jittranont
Sarayuth Jittranont
Assistant General Manager
โทรศัพท์มือถือ 01-204-8-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2913106-2

S:\Report\Stack_CEM\2.pdf



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2418408

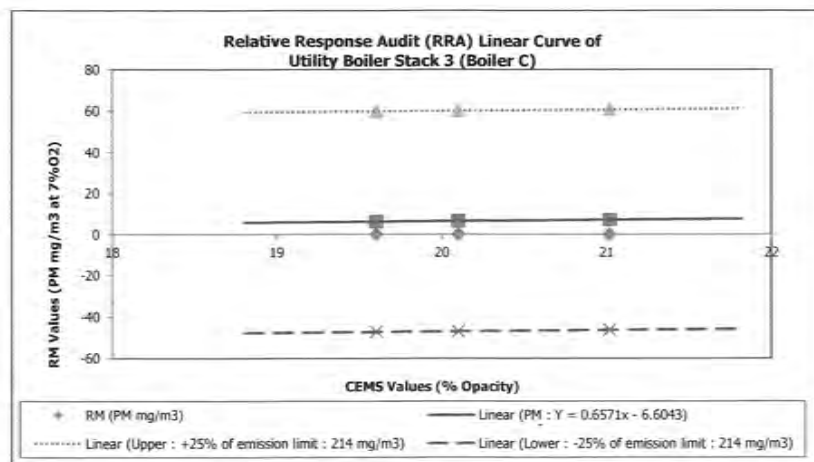
Date Received: Apr 05, 2024

Date Reported: Apr 23, 2024

Report Number: 2913106-2

Page 2 of 2

Sample Number 2418408-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Utility Boiler Stack 3 (Boiler C)
Parameter Relative Response Audit



Sampled By : Kritsana Saiwan

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 09-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 09-204-61702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Co., Ltd. strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Kluayung Phatthanakan, Khwaeng Suan Luang, Bangkok 10250 Thailand. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT PEOPLE

090-3371111

S:\Reports\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432728

Date Received : Apr 05, 2024

Date Reported : Apr 25, 2024

Report Number : 2944711-1

Page 1 of 2

Sample Number 2432728-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 1 H-100A
Parameter NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	02 Apr 24	11:00	11:20	43.86	39.37	36.54	33.47	-3.07
2*	02 Apr 24	11:21	11:41	43.75	39.46	36.37	33.46	-2.92
3	02 Apr 24	11:42	12:02	43.19	39.25	35.89	33.30	-2.60
4*	02 Apr 24	12:03	12:23	43.53	39.49	36.21	33.52	-2.69
5	02 Apr 24	12:24	12:44	43.26	39.62	35.96	33.59	-2.36
6	02 Apr 24	12:45	13:05	43.43	39.94	36.06	33.82	-2.23
7	02 Apr 24	13:06	13:26	43.68	40.31	36.30	34.17	-2.13
8	02 Apr 24	13:27	13:47	43.71	40.24	36.24	34.16	-2.08
9	02 Apr 24	13:48	14:08	43.62	40.29	36.22	34.21	-2.02
10	02 Apr 24	14:09	14:29	43.76	40.46	36.38	34.30	-2.08
11	02 Apr 24	14:30	14:50	43.44	40.25	36.08	34.15	-1.93
12	02 Apr 24	14:51	15:11	43.01	40.01	35.68	33.97	-1.70
Average						36.09	33.96	-2.13
Confidence Coefficient (CC)								0.20
Relative Accuracy (Compared with RM) (%)								6.84
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2. (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 09-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 09-204-61702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Co., Ltd. strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Kluayung Phatthanakan, Khwaeng Suan Luang, Bangkok 10250 Thailand. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT PEOPLE

090-3371111

S:\Reports\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432728
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944711-1

Page 2 of 2

Sample Number : 2432728-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 1 H-100A
Parameter : O₂

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	02 Apr 24	11:00	11:20	4.22	4.55	0.33
2	02 Apr 24	11:21	11:41	4.18	4.50	0.32
3	02 Apr 24	11:42	12:02	4.17	4.51	0.34
4	02 Apr 24	12:03	12:23	4.19	4.52	0.33
5	02 Apr 24	12:24	12:44	4.18	4.51	0.33
6	02 Apr 24	12:45	13:05	4.16	4.49	0.33
7	02 Apr 24	13:06	13:26	4.17	4.50	0.33
8*	02 Apr 24	13:27	13:47	4.13	4.53	0.39
9*	02 Apr 24	13:48	14:08	4.16	4.53	0.37
10	02 Apr 24	14:09	14:29	4.18	4.50	0.32
11	02 Apr 24	14:30	14:50	4.16	4.52	0.35
12*	02 Apr 24	14:51	15:11	4.14	4.53	0.39
Average				4.18	4.51	0.33
Confidence Coefficient (CC)						0.33
Relative Accuracy (Compared in Actual) (%)						≤ 1%
Relative Accuracy Criteria ^{1/} (%)						

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O₂ is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anurak Mounpair

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432735
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944732-1

Page 1 of 2

Sample Number : 2432735-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Parameter : NO_x

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O ₂		Corrected Value at 7% O ₂		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	04 Apr 24	10:20	10:40	44.67	44.84	37.68	38.47	0.80
2	04 Apr 24	10:41	11:01	44.30	44.66	37.34	38.32	0.98
3	04 Apr 24	11:02	11:22	44.18	44.86	37.25	38.48	1.23
4	04 Apr 24	11:23	11:43	44.57	45.35	37.58	38.88	1.31
5	04 Apr 24	11:44	12:04	44.14	45.15	37.18	38.71	1.53
6	04 Apr 24	12:05	12:25	44.24	45.36	37.23	38.87	1.64
7	04 Apr 24	12:26	12:46	44.36	45.44	37.40	38.96	1.55
8	04 Apr 24	12:47	13:07	44.09	45.29	37.19	38.81	1.62
9*	04 Apr 24	13:08	13:28	44.03	45.29	37.09	38.81	1.71
10*	04 Apr 24	13:29	13:49	43.98	45.35	37.10	38.89	1.79
11	04 Apr 24	13:50	14:10	43.77	45.06	36.91	38.62	1.71
12*	04 Apr 24	14:11	14:31	43.66	40.90	36.81	40.09	3.28
Average						37.31	38.68	1.37
Confidence Coefficient (CC)								0.24
Relative Accuracy (Compared with RM) (%)								4.18
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NO_x is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 2-204-6-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 2-204-6-4702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432735
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944732-1

Sample Number : 2432735-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 2 H-100B
Parameter : O2

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	04 Apr 24	10:20	10:40	4.42	4.70	0.28
2*	04 Apr 24	10:41	11:01	4.41	4.70	0.29
3	04 Apr 24	11:02	11:22	4.41	4.70	0.28
4	04 Apr 24	11:23	11:43	4.41	4.69	0.28
5	04 Apr 24	11:44	12:04	4.40	4.69	0.29
6*	04 Apr 24	12:05	12:25	4.38	4.68	0.30
7	04 Apr 24	12:26	12:46	4.42	4.69	0.27
8	04 Apr 24	12:47	13:07	4.42	4.68	0.26
9	04 Apr 24	13:08	13:28	4.40	4.68	0.28
10	04 Apr 24	13:29	13:49	4.42	4.69	0.27
11	04 Apr 24	13:50	14:10	4.42	4.68	0.27
12*	04 Apr 24	14:11	14:31	4.41	6.72	2.31
Average				4.41	4.69	0.27
Confidence Coefficient (CC)						0.27
Relative Accuracy (Compared in Actual) (%)						0.27
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed (test) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanasak 40, Phatthanasak Rd., Khwaeng Phatthanasak, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 3000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports\Stack_CEM\2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432736
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944731-1

Sample Number : 2432736-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 3 H-100C
Parameter : NOx

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	03 Apr 24	10:15	10:35	31.95	33.91	25.02	26.75	1.73
2	03 Apr 24	10:36	10:56	32.55	33.90	25.78	27.09	1.31
3	03 Apr 24	10:57	11:17	34.24	35.21	28.53	29.81	1.28
4	03 Apr 24	11:18	11:38	35.53	35.93	31.37	32.36	1.00
5	03 Apr 24	11:39	11:59	36.14	36.46	33.66	34.74	1.08
6	03 Apr 24	12:00	12:20	35.90	36.36	34.33	35.58	1.25
7	03 Apr 24	12:21	12:41	35.80	36.15	34.25	35.24	0.99
8	03 Apr 24	12:42	13:02	35.85	36.62	34.18	35.63	1.45
9	03 Apr 24	13:03	13:23	35.76	36.75	34.12	35.77	1.65
10*	03 Apr 24	13:24	13:44	35.91	37.27	34.29	36.34	2.05
11	03 Apr 24	13:45	14:05	35.88	36.90	34.28	35.98	1.70
12*	03 Apr 24	14:06	14:26	35.68	37.00	34.08	36.08	2.00
Average						32.28	33.58	1.30
Confidence Coefficient (CC)								0.20
Relative Accuracy (Compared with RM) (%)								4.47
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์ 2-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 2-204-4702

The above results are valid only for the analyzed (test) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanasak 40, Phatthanasak Rd., Khwaeng Phatthanasak, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 3000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports\Stack_CEM\2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432736
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944731-1

Page 2 of 2

Sample Number : 2432736-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 3 H-100C
Parameter : O₂

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	03 Apr 24	10:15	10:35	3.15	3.28	0.13
2	03 Apr 24	10:36	10:56	3.35	3.50	0.16
3	03 Apr 24	10:57	11:17	4.22	4.49	0.27
4*	03 Apr 24	11:18	11:38	5.15	5.47	0.31
5*	03 Apr 24	11:39	11:59	5.98	6.31	0.33
6*	03 Apr 24	12:00	12:20	6.36	6.70	0.33
7	03 Apr 24	12:21	12:41	6.37	6.64	0.27
8	03 Apr 24	12:42	13:02	6.32	6.61	0.29
9	03 Apr 24	13:03	13:23	6.33	6.62	0.29
10	03 Apr 24	13:24	13:44	6.34	6.65	0.30
11	03 Apr 24	13:45	14:05	6.35	6.64	0.29
12	03 Apr 24	14:06	14:26	6.35	6.64	0.30
Average				5.42	5.68	0.26
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.26
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O₂ is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anuvat Moungpair

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 0-204-61113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์มือถือ 0-204-61102

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports\Stack_C2M17.pdf

7/19/2024



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432737
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944728-1

Page 1 of 2

Sample Number : 2432737-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 4 H-100D
Parameter : NO_x

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O ₂		Corrected Value at 7% O ₂		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	02 Apr 24	11:00	11:20	33.14	37.51	26.80	30.50	3.70
2	02 Apr 24	11:21	11:41	33.50	37.83	27.11	30.77	3.66
3*	02 Apr 24	11:42	12:02	33.10	38.03	26.76	30.93	4.17
4*	02 Apr 24	12:03	12:23	33.48	37.96	27.10	30.88	3.78
5	02 Apr 24	12:24	12:44	33.58	37.89	27.19	30.80	3.60
6*	02 Apr 24	12:45	13:05	34.16	38.57	27.64	31.40	3.76
7	02 Apr 24	13:06	13:26	34.25	38.46	27.81	31.38	3.57
8	02 Apr 24	13:27	13:47	34.17	37.61	27.71	30.67	2.96
9	02 Apr 24	13:48	14:08	34.27	37.60	27.75	30.64	2.89
10	02 Apr 24	14:09	14:29	34.28	37.98	27.76	30.96	3.20
11	02 Apr 24	14:30	14:50	34.22	38.00	27.72	30.98	3.26
12	02 Apr 24	14:51	15:11	33.90	37.73	27.52	30.83	3.32
Average						27.49	30.84	3.35
Confidence Coefficient (CC)								0.23
Relative Accuracy (Compared with RM) (%)								11.62
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NO_x is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 0-204-61113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์มือถือ 0-204-61102

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports\Stack_C2M17.pdf

7/19/2024



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432737
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944728-1

Sample Number 2432737-1
Sampled Date Apr 02, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 4 H-100D
Parameter O2

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	02 Apr 24	11:00	11:20	3.71	3.81	0.09
2	02 Apr 24	11:21	11:41	3.72	3.81	0.09
3	02 Apr 24	11:42	12:02	3.70	3.81	0.11
4	02 Apr 24	12:03	12:23	3.73	3.81	0.09
5	02 Apr 24	12:24	12:44	3.73	3.80	0.06
6	02 Apr 24	12:45	13:05	3.72	3.82	0.10
7	02 Apr 24	13:06	13:26	3.78	3.87	0.08
8	02 Apr 24	13:27	13:47	3.76	3.85	0.10
9*	02 Apr 24	13:48	14:08	3.73	3.84	0.11
10*	02 Apr 24	14:09	14:29	3.74	3.85	0.11
11	02 Apr 24	14:30	14:50	3.74	3.85	0.11
12*	02 Apr 24	14:51	15:11	3.78	3.89	0.11
Average				3.73	3.83	0.09
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.09
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anuvat Moungepair

Technical Management
Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-6113

Approved by
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 0-204-614702

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group
(Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 1000 / FAX +66 0 2760 1197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7499-53/1948

RIGHT SOLUTIONS 05/03/2019 07:00:00

S:\Report\Stack_CEM\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432738
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944726-1

Sample Number 2432738-1
Sampled Date Apr 04, 2024
Sample Description Emission from Stationary Source
Location Naphtha Cracking Heater Stack 5 H-100E
Parameter NOx

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	04 Apr 24	11:10	11:30	36.42	34.82	31.62	31.10	-0.52
2	04 Apr 24	11:31	11:51	36.99	35.20	34.35	33.05	-1.30
3*	04 Apr 24	11:52	12:12	36.76	34.67	34.54	32.79	-1.75
4*	04 Apr 24	12:13	12:33	36.80	35.03	34.49	33.05	-1.43
5	04 Apr 24	12:34	12:54	36.52	35.27	34.21	33.25	-0.96
6	04 Apr 24	12:55	13:15	36.52	35.05	34.20	33.00	-1.19
7	04 Apr 24	13:16	13:36	36.57	35.44	34.26	33.43	-0.84
8	04 Apr 24	13:37	13:57	36.30	35.63	34.00	33.60	-0.40
9	04 Apr 24	13:58	14:18	36.29	35.32	34.00	33.28	-0.71
10	04 Apr 24	14:19	14:39	37.22	36.02	35.09	34.08	-1.01
11*	04 Apr 24	14:40	15:00	38.60	36.87	36.83	35.04	-1.79
12	04 Apr 24	15:01	15:21	37.91	36.62	35.98	34.68	-1.30
Average						34.19	33.27	-0.91
Confidence Coefficient (CC)								0.25
Relative Accuracy (Compared with RM) (%)								3.50
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management
Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-6113

Approved by
Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 0-204-614702

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group
(Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 1000 / FAX +66 0 2760 1197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7499-53/1948

RIGHT SOLUTIONS 05/03/2019 07:00:00

S:\Report\Stack_CEM\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432738
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944726-1

Sample Number : 2432738-1
Sampled Date : Apr 04, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 5 H-100E
Parameter : O2

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	04 Apr 24	11:10	11:30	4.89	5.34	0.45
2*	04 Apr 24	11:31	11:51	5.93	6.10	0.17
3	04 Apr 24	11:52	12:12	6.11	6.20	0.10
4*	04 Apr 24	12:13	12:33	6.07	6.17	0.10
5	04 Apr 24	12:34	12:54	6.06	6.15	0.09
6	04 Apr 24	12:55	13:15	6.05	6.14	0.08
7	04 Apr 24	13:16	13:36	6.06	6.16	0.10
8	04 Apr 24	13:37	13:57	6.06	6.16	0.10
9	04 Apr 24	13:58	14:18	6.06	6.15	0.08
10	04 Apr 24	14:19	14:39	6.16	6.21	0.05
11	04 Apr 24	14:40	15:00	6.33	6.27	-0.06
12	04 Apr 24	15:01	15:21	6.25	6.22	-0.03
Average				6.13	6.19	0.06
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.06
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anuvat Mounpair

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 3-204-6113

Approved by

Sarayuth Jittranont
Assistant General Manager

โทรศัพท์มือถือ 3-204-61702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Stack_CEM\2.gr



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432739
Date Received : Apr 04, 2024
Date Reported : Apr 25, 2024
Report Number : 2944724-1

Sample Number : 2432739-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 6 H-100F
Parameter : NOx

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	02 Apr 24	13:00	13:20	39.32	39.02	33.55	32.82	-0.73
2	02 Apr 24	13:21	13:41	39.39	38.86	34.02	32.86	-1.17
3	02 Apr 24	13:42	14:02	39.42	38.76	33.94	32.79	-1.15
4	02 Apr 24	14:03	14:23	39.40	38.88	33.96	32.93	-1.03
5	02 Apr 24	14:24	14:44	39.57	38.84	34.21	32.92	-1.29
6	02 Apr 24	14:45	15:05	39.26	38.32	33.69	32.46	-1.23
7	02 Apr 24	15:06	15:26	38.76	37.83	33.32	32.02	-1.30
8*	02 Apr 24	15:27	15:47	38.49	37.61	33.23	31.81	-1.42
9*	02 Apr 24	15:48	16:08	38.65	37.66	33.32	31.89	-1.43
10	02 Apr 24	16:09	16:29	38.54	37.66	33.25	31.90	-1.35
11	02 Apr 24	16:30	16:50	38.57	37.49	33.07	31.76	-1.32
12*	02 Apr 24	16:51	17:11	38.49	37.41	33.01	31.66	-1.35
Average						33.67	32.50	-1.17
Confidence Coefficient (CC)								0.15
Relative Accuracy (Compared with RM) (%)								4.07
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 3-204-6113

Approved by

Sarayuth Jittranont
Assistant General Manager

โทรศัพท์มือถือ 3-204-61702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Stack_CEM\2.gr



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432739
Date Received : Apr 04, 2024
Date Reported : Apr 25, 2024
Report Number : 2944724-1

Page 2 of 2

Sample Number : 2432739-1
Sampled Date : Apr 02, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 6 H-100F
Parameter : O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	02 Apr 24	13:00	13:20	4.61	4.37	-0.24
2*	02 Apr 24	13:21	13:41	4.81	4.46	-0.35
3	02 Apr 24	13:42	14:02	4.76	4.47	-0.29
4	02 Apr 24	14:03	14:23	4.77	4.49	-0.28
5*	02 Apr 24	14:24	14:44	4.82	4.50	-0.32
6	02 Apr 24	14:45	15:05	4.70	4.49	-0.21
7	02 Apr 24	15:06	15:26	4.73	4.47	-0.26
8*	02 Apr 24	15:27	15:47	4.80	4.46	-0.33
9	02 Apr 24	15:48	16:08	4.77	4.48	-0.29
10	02 Apr 24	16:09	16:29	4.79	4.49	-0.30
11	02 Apr 24	16:30	16:50	4.69	4.49	-0.20
12	02 Apr 24	16:51	17:11	4.69	4.47	-0.22
Average				4.72	4.47	-0.25
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.25
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussaree Namburee

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 2-204-8-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 2-204-8-4702

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakarn Rd., Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

S:\Reports\Stack_CEM1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432740
Date Received : Jun 27, 2024
Date Reported : Jul 02, 2024
Report Number : 2944722-1

Page 1 of 2

Sample Number : 2432740-1
Sampled Date : Jun 27, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Parameter : NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	27 Jun 24	12:00	12:20	35.75	39.67	28.96	31.16	2.20
2	27 Jun 24	12:21	12:41	34.85	38.90	28.07	30.40	2.33
3	27 Jun 24	12:42	13:02	33.75	38.12	26.89	29.56	2.68
4	27 Jun 24	13:03	13:23	33.29	37.80	26.47	29.27	2.80
5	27 Jun 24	13:24	13:44	33.11	37.62	26.39	29.19	2.80
6	27 Jun 24	13:45	14:05	33.59	38.31	26.65	29.66	3.01
7	27 Jun 24	14:06	14:26	32.83	37.59	26.13	29.17	3.04
8	27 Jun 24	14:27	14:47	32.53	37.35	25.98	29.06	3.09
9	27 Jun 24	14:48	15:08	32.66	37.60	26.13	29.24	3.10
10*	27 Jun 24	15:09	15:29	32.58	37.51	26.05	29.26	3.21
11*	27 Jun 24	15:30	15:50	32.51	37.46	26.09	29.27	3.18
12*	27 Jun 24	15:51	16:11	32.67	37.63	26.29	29.46	3.18
Average						26.85	29.64	2.78
Confidence Coefficient (CC)								0.25
Relative Accuracy (Compared with RM) (%)								10.25
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark : * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 2-204-8-0005

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 2-204-8-0003

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakarn Rd., Phatthanakarn Rd., Khwaeng Phatthanakarn, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

S:\Reports\Stack_CEM2.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432740
Date Received : Jun 27, 2024
Date Reported : Jul 02, 2024
Report Number : 2944722-1

Sample Number : 2432740-1
Sampled Date : Jun 27, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 7 H-100G
Parameter : O₂

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1*	27 Jun 24	12:00	12:20	3.74	3.21	-0.54
2*	27 Jun 24	12:21	12:41	3.65	3.11	-0.53
3	27 Jun 24	12:42	13:02	3.45	2.98	-0.48
4	27 Jun 24	13:03	13:23	3.42	2.95	-0.47
5	27 Jun 24	13:24	13:44	3.46	2.98	-0.47
6	27 Jun 24	13:45	14:05	3.38	2.95	-0.43
7	27 Jun 24	14:06	14:26	3.44	2.99	-0.45
8	27 Jun 24	14:27	14:47	3.50	3.04	-0.46
9*	27 Jun 24	14:48	15:08	3.53	3.02	-0.51
10	27 Jun 24	15:09	15:29	3.52	3.08	-0.43
11	27 Jun 24	15:30	15:50	3.58	3.11	-0.47
12	27 Jun 24	15:51	16:11	3.63	3.15	-0.48
Average				3.49	3.03	-0.46
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.46
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O₂ is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussaree Namburee

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 0-204-8-0005

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์มือถือ 0-204-8-0003

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not re-translated except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand. PHONE: +66 0 2760 1000. FAX: +66 0 2760 3197.
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEMs.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432741
Date Received : Apr 04, 2024
Date Reported : Apr 25, 2024
Report Number : 2944720-1

Sample Number : 2432741-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 H-100H
Parameter : NO_x

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O ₂		Corrected Value at 7% O ₂		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	03 Apr 24	12:25	12:45	24.74	26.45	22.83	24.59	1.76
2*	03 Apr 24	12:46	13:06	24.71	26.17	22.84	24.49	1.66
3*	03 Apr 24	13:07	13:27	24.64	26.45	22.80	24.61	1.81
4	03 Apr 24	13:28	13:48	24.89	26.37	23.04	24.45	1.40
5	03 Apr 24	13:49	14:09	25.44	25.70	23.53	24.28	0.75
6	03 Apr 24	14:10	14:30	25.57	25.68	23.69	24.09	0.40
7	03 Apr 24	14:31	14:51	25.37	25.66	23.42	24.03	0.60
8	03 Apr 24	14:52	15:12	25.30	25.41	23.31	23.79	0.48
9	03 Apr 24	15:13	15:33	25.59	25.54	23.64	23.83	0.19
10	03 Apr 24	15:34	15:54	25.33	25.45	23.47	23.70	0.23
11	03 Apr 24	15:55	16:15	25.52	25.47	23.77	23.71	-0.07
12	03 Apr 24	16:16	16:36	25.47	25.48	23.63	23.61	-0.02
Average						23.50	23.94	0.44
Confidence Coefficient (CC)								0.35
Relative Accuracy (Compared with Emission Standard : 50 ppm) (%)								1.57
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NO_x is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with Emission Standard 50 ppm at 7%O₂

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทรศัพท์มือถือ 0-204-8-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์มือถือ 0-204-8-4702

The above results are valid only for the analyzed (tested samples) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not re-translated except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand. PHONE: +66 0 2760 3000. FAX: +66 0 2760 3197.
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEMs.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432741
Date Received : Apr 04, 2024
Date Reported : Apr 25, 2024
Report Number : 2944720-1

Sample Number : 2432741-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 H-100H
Parameter : O2

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	03 Apr 24	12:25	12:45	5.84	5.95	0.12
2	03 Apr 24	12:46	13:06	5.86	6.05	0.19
3	03 Apr 24	13:07	13:27	5.88	5.96	0.08
4	03 Apr 24	13:28	13:48	5.89	5.91	0.02
5*	03 Apr 24	13:49	14:09	5.87	6.19	0.32
6	03 Apr 24	14:10	14:30	5.90	6.08	0.18
7*	03 Apr 24	14:31	14:51	5.84	6.05	0.21
8*	03 Apr 24	14:52	15:12	5.81	6.05	0.24
9	03 Apr 24	15:13	15:33	5.85	6.00	0.15
10	03 Apr 24	15:34	15:54	5.90	5.97	0.07
11	03 Apr 24	15:55	16:15	5.98	5.96	-0.02
12	03 Apr 24	16:16	16:36	5.92	5.90	-0.02
Average				5.89	5.98	0.09
Confidence Coefficient (CC)						0.09
Relative Accuracy (Compared in Actual) (%)						≤ 1%
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussaree Namburee



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432741
Date Received : Apr 04, 2024
Date Reported : Apr 25, 2024
Report Number : 2944720-1

Sample Number : 2432741-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 H-100H
Parameter : NOx

Page 1 of 1

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	03 Apr 24	12:25	12:45	24.74	26.45	22.83	24.59	1.76
2*	03 Apr 24	12:46	13:06	24.71	26.17	22.84	24.49	1.66
3*	03 Apr 24	13:07	13:27	24.64	26.45	22.80	24.61	1.81
4	03 Apr 24	13:28	13:48	24.89	26.37	23.04	24.45	1.40
5	03 Apr 24	13:49	14:09	25.44	25.70	23.53	24.28	0.75
6	03 Apr 24	14:10	14:30	25.57	25.68	23.69	24.09	0.40
7	03 Apr 24	14:31	14:51	25.37	25.66	23.42	24.03	0.60
8	03 Apr 24	14:52	15:12	25.30	25.41	23.31	23.79	0.48
9	03 Apr 24	15:13	15:33	25.59	25.54	23.64	23.83	0.19
10	03 Apr 24	15:34	15:54	25.33	25.45	23.47	23.70	0.23
11	03 Apr 24	15:55	16:15	25.52	25.47	23.77	23.71	-0.07
12	03 Apr 24	16:16	16:36	25.47	25.48	23.63	23.61	-0.02
Average						23.50	23.94	0.44
Confidence Coefficient (CC)								0.35
Relative Accuracy (Compared with Emission Standard : 50 ppm) (%)								1.57
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 50 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-8-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 0-204-8-4702

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS: 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 3000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE

S:\Reports\Stack_CEM1.rpt

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-8-6113

Approved by

Sarayuth Jitranont
Assistant General Manager
โทรศัพท์มือถือ 0-204-8-4702

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS: 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 3000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE

S:\Reports\Stack_CEM1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432741

Date Received : Apr 04, 2024

Date Reported : Apr 25, 2024

Report Number : 2944720-1

Sample Number : 2432741-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Naphtha Cracking Heater Stack 8 H-100H
Parameter : O₂

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	03 Apr 24	12:25	12:45	5.84	5.95	0.12
2	03 Apr 24	12:46	13:06	5.86	6.05	0.19
3	03 Apr 24	13:07	13:27	5.88	5.96	0.08
4	03 Apr 24	13:28	13:48	5.89	5.91	0.02
5*	03 Apr 24	13:49	14:09	5.87	6.19	0.32
6	03 Apr 24	14:10	14:30	5.90	6.08	0.18
7*	03 Apr 24	14:31	14:51	5.84	6.05	0.21
8*	03 Apr 24	14:52	15:12	5.81	6.05	0.24
9	03 Apr 24	15:13	15:33	5.85	6.00	0.15
10	03 Apr 24	15:34	15:54	5.90	5.97	0.07
11	03 Apr 24	15:55	16:15	5.98	5.96	-0.02
12	03 Apr 24	16:16	16:36	5.92	5.90	-0.02
Average				5.89	5.98	0.09
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.09
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O₂ is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussanee Namburee

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ 2-204-R-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

ทะเบียนเลขที่ 2-204-R-4702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7497-S12 (NAE)

RIGHT SOLUTIONS. RIGHT PARTNER.

S:\Reports\Stack_CEM\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432742

Date Received : Apr 06, 2024

Date Reported : Apr 25, 2024

Report Number : 2944719-1

Sample Number : 2432742-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Parameter : NO_x

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O ₂		Corrected Value at 7% O ₂		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	03 Apr 24	10:15	10:35	39.92	41.35	29.31	30.28	0.98
2	03 Apr 24	10:36	10:56	40.05	41.35	29.44	30.23	0.80
3	03 Apr 24	10:57	11:17	39.84	41.68	29.25	30.52	1.27
4	03 Apr 24	11:18	11:38	39.95	41.76	29.45	30.61	1.16
5	03 Apr 24	11:39	11:59	40.04	41.81	29.51	30.66	1.15
6	03 Apr 24	12:00	12:20	39.48	41.40	28.95	30.22	1.27
7	03 Apr 24	12:21	12:41	39.63	41.12	29.07	30.09	1.02
8	03 Apr 24	12:42	13:02	39.32	41.58	28.96	30.47	1.51
9	03 Apr 24	13:03	13:23	39.12	41.38	28.75	30.31	1.56
10*	03 Apr 24	13:24	13:44	39.29	41.56	28.86	30.48	1.62
11*	03 Apr 24	13:45	14:05	39.33	41.88	28.94	30.71	1.78
12*	03 Apr 24	14:06	14:26	39.27	41.82	28.83	30.66	1.84
Average						29.19	30.38	1.19
Confidence Coefficient (CC)								0.19
Relative Accuracy (Compared with RM) (%)								4.54
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NO_x is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

ทะเบียนเลขที่ 2-204-R-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

ทะเบียนเลขที่ 2-204-R-4702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

7497-S12 (NAE)

RIGHT SOLUTIONS. RIGHT PARTNER.

S:\Reports\Stack_CEM\1.rpt



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432742
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : Z944719-1

Page 2 of 2

Sample Number : 2432742-1
Sampled Date : Apr 03, 2024
Sample Description : Emission from Stationary Source
Location : Recycle Cracking Heater (H-120R)
Parameter : O₂

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	03 Apr 24	10:15	10:35	1.97	1.92	-0.05
2*	03 Apr 24	10:36	10:56	1.99	1.89	-0.10
3	03 Apr 24	10:57	11:17	1.96	1.92	-0.05
4*	03 Apr 24	11:18	11:38	2.04	1.94	-0.10
5*	03 Apr 24	11:39	11:59	2.04	1.94	-0.09
6	03 Apr 24	12:00	12:20	1.94	1.85	-0.09
7	03 Apr 24	12:21	12:41	1.95	1.91	-0.05
8	03 Apr 24	12:42	13:02	2.03	1.93	-0.09
9	03 Apr 24	13:03	13:23	1.99	1.92	-0.06
10	03 Apr 24	13:24	13:44	1.98	1.95	-0.03
11	03 Apr 24	13:45	14:05	2.01	1.95	-0.06
12	03 Apr 24	14:06	14:26	1.97	1.94	-0.02
Average				1.98	1.92	-0.06
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.06
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O₂ is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3).

RA Result is within Criteria

Sampled By : Anurak Moungpair

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-6-6113

Approved by

Sarayuth Jittrant
Assistant General Manager
โทรศัพท์มือถือ 0-204-6-4702

The above results are valid only for the analyzed (tested) samples as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS 104 Phraethanank Rd., Phraethanank Rd., Khwaeng Phraethanank, Khet Suan Luang, Bangkok 10250 Thailand. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEM\Z94



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432743
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : Z944718-1

Page 1 of 2

Sample Number : 2432743-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : GHU II (H-830)
Parameter : NO_x

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O ₂		Corrected Value at 7% O ₂		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	05 Apr 24	15:20	15:40	16.18	15.09	28.27	27.49	-0.79
2	05 Apr 24	15:41	16:01	16.18	15.09	28.32	27.47	-0.85
3	05 Apr 24	16:02	16:22	16.19	14.93	28.36	27.26	-1.09
4	05 Apr 24	16:23	16:43	16.19	14.95	28.40	26.99	-1.41
5*	05 Apr 24	16:44	17:04	16.20	14.77	28.44	26.80	-1.65
6*	05 Apr 24	17:05	17:25	16.20	14.78	28.48	26.88	-1.61
7	05 Apr 24	17:26	17:46	16.21	14.78	28.52	27.17	-1.35
8*	05 Apr 24	17:47	18:07	16.21	14.73	28.57	26.93	-1.64
9	05 Apr 24	18:08	18:28	16.22	14.77	28.61	27.21	-1.40
10	05 Apr 24	18:29	18:49	16.22	14.74	28.65	27.14	-1.51
11	05 Apr 24	18:50	19:10	16.23	14.73	28.69	27.31	-1.38
12	05 Apr 24	19:11	19:31	16.23	14.74	28.73	27.51	-1.23
Average						28.51	27.28	-1.22
Confidence Coefficient (CC)								0.20
Relative Accuracy (Compared with Emission Standard : 55 ppm) (%)								2.58
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NO_x is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 55 ppm at 7%O₂

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
โทรศัพท์มือถือ 0-204-6-6113

Approved by

Sarayuth Jittrant
Assistant General Manager
โทรศัพท์มือถือ 0-204-6-4702

The above results are valid only for the analyzed (tested) samples as indicated in this report. No part of this report or certificate may be reproduced or any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS 104 Phraethanank Rd., Phraethanank Rd., Khwaeng Phraethanank, Khet Suan Luang, Bangkok 10250 Thailand. PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Stack_CEM\Z94



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432743
Date Received : Apr 06, 2024
Date Reported : Apr 25, 2024
Report Number : 2944718-1

Page 2 of 2

Sample Number : 2432743-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : GHU II (H-830)
Parameter : O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	05 Apr 24	15:20	15:40	12.95	13.27	0.32
2	05 Apr 24	15:41	16:01	12.96	13.26	0.31
3	05 Apr 24	16:02	16:22	12.97	13.29	0.32
4	05 Apr 24	16:23	16:43	12.97	13.20	0.23
5	05 Apr 24	16:44	17:04	12.98	13.24	0.25
6	05 Apr 24	17:05	17:25	12.99	13.26	0.26
7*	05 Apr 24	17:26	17:46	13.00	13.34	0.34
8	05 Apr 24	17:47	18:07	13.01	13.29	0.28
9	05 Apr 24	18:08	18:28	13.02	13.36	0.34
10	05 Apr 24	18:29	18:49	13.03	13.35	0.32
11*	05 Apr 24	18:50	19:10	13.04	13.40	0.36
12*	05 Apr 24	19:11	19:31	13.05	13.45	0.40
Average				12.99	13.28	0.29
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.29
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Anuvat Moungpair

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager

โทรศัพท์ 02-204-6113

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 02-204-4702

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand. PHONE: +66 0 2760 3000. FAX: +66 0 2760 3197. ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Stack_CEM2.rpt

7897-3121646



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432744
Date Received : May 31, 2024
Date Reported : Jun 17, 2024
Report Number : 2944717-1

Page 1 of 2

Sample Number : 2432744-1
Sampled Date : May 31, 2024
Sample Description : Emission from Stationary Source
Location : OCU Feed Heater (H-760)
Parameter : NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	31 May 24	10:00	10:20	21.48	20.95	24.12	23.24	-0.87
2*	31 May 24	10:21	10:41	22.45	21.53	25.32	23.93	-1.39
3*	31 May 24	10:42	11:02	22.45	21.81	25.34	24.26	-1.08
4	31 May 24	11:03	11:23	22.21	22.20	24.97	24.64	-0.33
5	31 May 24	11:24	11:44	22.40	22.44	25.17	24.88	-0.28
6	31 May 24	11:45	12:05	22.24	22.87	24.98	25.35	0.36
7	31 May 24	12:06	12:26	21.96	23.18	24.69	25.69	1.00
8	31 May 24	12:27	12:47	22.26	23.29	24.93	25.81	0.88
9	31 May 24	12:48	13:08	22.71	23.63	25.48	26.19	0.71
10	31 May 24	13:09	13:29	22.71	23.14	25.49	25.65	0.16
11	31 May 24	13:30	13:50	22.46	23.26	25.21	25.76	0.55
12*	31 May 24	13:51	14:11	22.24	23.76	24.97	26.45	1.48
Average						25.00	25.25	0.24
Confidence Coefficient (CC)								0.48
Relative Accuracy (Compared with Emission Standard : 55 ppm) (%)								1.32
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 55 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager

โทรศัพท์ 02-204-0006

Approved by

Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 02-204-0003

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand. PHONE: +66 0 2760 3000. FAX: +66 0 2760 3197. ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Stack_CEM2.rpt

7897-3121646



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432744
Date Received : May 31, 2024
Date Reported : Jun 17, 2024
Report Number : 2944717-1

Page 2 of 2

Sample Number 2432744-1
Sampled Date May 31, 2024
Sample Description Emission from Stationary Source
Location OCU Feed Heater (H-760)
Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	31 May 24	10:00	10:20	8.52	8.37	-0.15
2*	31 May 24	10:21	10:41	8.58	8.39	-0.18
3*	31 May 24	10:42	11:02	8.58	8.40	-0.18
4	31 May 24	11:03	11:23	8.54	8.38	-0.16
5	31 May 24	11:24	11:44	8.53	8.36	-0.16
6	31 May 24	11:45	12:05	8.53	8.36	-0.17
7*	31 May 24	12:06	12:26	8.54	8.36	-0.18
8	31 May 24	12:27	12:47	8.49	8.36	-0.13
9	31 May 24	12:48	13:08	8.51	8.36	-0.15
10	31 May 24	13:09	13:29	8.51	8.36	-0.16
11	31 May 24	13:30	13:50	8.52	8.35	-0.17
12	31 May 24	13:51	14:11	8.52	8.41	-0.10
Average				8.52	8.37	-0.15
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.15
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussanee Namiburee

Technical Management

Wichan Choonharat
Manager
หมายเลข 7-204-0-0006

Approved by

Sarayuth Jitranont
Assistant General Manager
หมายเลข 7-204-0-0003

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced without a full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 5000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS

S:\Reports\Stack_CEM\1717

14807-527-0002



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432745
Date Received : May 31, 2024
Date Reported : Jun 17, 2024
Report Number : 2944716-1

Page 1 of 1

Sample Number 2432745-1
Sampled Date May 30, 2024
Sample Description Emission from Stationary Source
Location OCU Regeneration Heater (H-761)
Parameter NOx

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1	30 May 24	12:20	12:40	23.82	23.88	24.89	24.49	-0.39
2	30 May 24	12:41	13:01	24.20	23.68	25.53	24.44	-1.09
3	30 May 24	13:02	13:22	24.52	23.52	26.02	24.40	-1.62
4	30 May 24	13:23	13:43	24.34	23.25	25.75	24.17	-1.57
5	30 May 24	13:44	14:04	24.12	23.13	25.48	23.95	-1.53
6*	30 May 24	14:05	14:25	24.41	23.04	25.65	23.89	-1.76
7*	30 May 24	14:26	14:46	24.32	23.08	25.64	23.88	-1.76
8*	30 May 24	14:47	15:07	24.38	23.19	25.73	24.05	-1.68
9	30 May 24	15:08	15:28	24.25	23.07	25.49	23.93	-1.57
10	30 May 24	15:29	15:49	23.69	23.06	24.80	23.89	-0.91
11	30 May 24	15:50	16:10	23.69	23.16	24.68	23.92	-0.76
12	30 May 24	16:11	16:31	23.04	22.97	24.08	23.77	-0.32
Average						25.19	24.11	-1.08
Confidence Coefficient (CC)								0.40
Relative Accuracy (Compared with Emission Standard : 55 ppm) (%)								2.70
Relative Accuracy Criteria ^{1/} (Compared with Emission Standard)								≤ 10%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2) compared with

Emission Standard 55 ppm at 7%O2

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager
หมายเลข 7-204-0-0006

Approved by

Sarayuth Jitranont
Assistant General Manager
หมายเลข 7-204-0-0003

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced without a full.

ADDRESS: 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE: +66 0 2760 5000 FAX: +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS

S:\Reports\Stack_CEM\1716

7497-527-0002



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432745
Date Received : May 31, 2024
Date Reported : Jun 17, 2024
Report Number : 2944716-1

Sample Number : 2432745-1
Sampled Date : May 30, 2024
Sample Description : Emission from Stationary Source
Location : OCU Regeneration Heater (H-761)
Parameter : O2

Page 2 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	30 May 24	12:20	12:40	7.60	7.35	-0.25
2*	30 May 24	12:41	13:01	7.72	7.43	-0.29
3*	30 May 24	13:02	13:22	7.80	7.50	-0.30
4	30 May 24	13:23	13:43	7.76	7.53	-0.22
5*	30 May 24	13:44	14:04	7.74	7.48	-0.26
6	30 May 24	14:05	14:25	7.67	7.49	-0.18
7	30 May 24	14:26	14:46	7.71	7.47	-0.25
8	30 May 24	14:47	15:07	7.73	7.49	-0.24
9	30 May 24	15:08	15:28	7.68	7.50	-0.18
10	30 May 24	15:29	15:49	7.62	7.48	-0.14
11	30 May 24	15:50	16:10	7.56	7.44	-0.12
12	30 May 24	16:11	16:31	7.60	7.47	-0.13
Average				7.66	7.47	-0.19
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.19
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

Sampled By : Ussaree Namburee

Technical Management

Wichan Choonharat
Manager

โทร: 02-04-0006

Approved by

Sarayuht Jitranont
Assistant General Manager

โทร: 02-04-0003

The above results are valid only for the analyzed samples as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT SPARE PARTS

S:\Report\Stack_CEM2.pdf

2024-511000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432746
Date Received : Apr 05, 2024
Date Reported : Apr 25, 2024
Report Number : 2944715-1

Sample Number : 2432746-1
Sampled Date : Apr 05, 2024
Sample Description : Emission from Stationary Source
Location : Gas Cracking Furnace Stack (H-S120A)
Parameter : NOx

Page 1 of 2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual O2		Corrected Value at 7% O2		Difference
		Start	Stop	CEMs (ppm)	RM (ppm)	CEMs (ppm)	RM (ppm)	
1*	05 Apr 24	11:00	11:20	41.36	35.42	30.54	26.12	-4.42
2*	05 Apr 24	11:21	11:41	40.79	35.39	30.14	26.09	-4.04
3*	05 Apr 24	11:42	12:02	35.99	35.45	26.56	26.15	-0.42
4	05 Apr 24	12:03	12:23	35.07	35.33	25.88	26.03	0.15
5	05 Apr 24	12:24	12:44	35.26	35.59	26.01	26.24	0.23
6	05 Apr 24	12:45	13:05	35.71	35.88	26.31	26.43	0.12
7	05 Apr 24	13:06	13:26	35.46	35.73	26.12	26.34	0.22
8	05 Apr 24	13:27	13:47	35.70	35.74	26.29	26.33	0.04
9	05 Apr 24	13:48	14:08	36.13	36.11	26.63	26.61	-0.02
10	05 Apr 24	14:09	14:29	35.59	35.70	26.19	26.33	0.14
11	05 Apr 24	14:30	14:50	35.96	35.74	26.56	26.42	-0.14
12	05 Apr 24	14:51	15:11	36.34	35.97	26.80	26.56	-0.24
Average						26.31	26.36	0.05
Confidence Coefficient (CC)								0.12
Relative Accuracy (Compared with RM) (%)								0.68
Relative Accuracy Criteria ^{1/} (Compared with RM)								≤ 20%

Reference Method : US EPA Method 7E

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of NOx is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 2 (PS-2)

RA Result is within Criteria

Technical Management

Wichan Choonharat
Manager

โทร: 02-04-6113

Approved by

Sarayuht Jitranont
Assistant General Manager

โทร: 02-04-4702

The above results are valid only for the analyzed samples as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT SPARE PARTS

S:\Report\Stack_CEM2.pdf

2024-511000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432746

Date Received : Apr 05, 2024

Date Reported : Apr 25, 2024

Report Number : 2944715-1

Page 2 of 2

Sample Number 2432746-1

Sampled Date Apr 05, 2024

Sample Description Emission from Stationary Source

Location Gas Cracking Furnace Stack (H-S120A)

Parameter O2

Relative Accuracy Test Audit Report

Run No.	Date	Time		Raw Data at Actual		Difference
		Start	Stop	CEMs (%)	RM (%)	
1	05 Apr 24	11:00	11:20	2.07	2.05	-0.02
2*	05 Apr 24	11:21	11:41	2.09	2.05	-0.04
3	05 Apr 24	11:42	12:02	2.07	2.05	-0.02
4*	05 Apr 24	12:03	12:23	2.06	2.03	-0.03
5	05 Apr 24	12:24	12:44	2.06	2.05	-0.01
6	05 Apr 24	12:45	13:05	2.03	2.03	0.00
7	05 Apr 24	13:06	13:26	2.03	2.04	0.01
8	05 Apr 24	13:27	13:47	2.03	2.03	0.01
9	05 Apr 24	13:48	14:08	2.04	2.04	0.00
10*	05 Apr 24	14:09	14:29	2.01	2.05	0.04
11	05 Apr 24	14:30	14:50	2.09	2.10	0.01
12	05 Apr 24	14:51	15:11	2.05	2.08	0.02
Average				2.05	2.05	0.00
Confidence Coefficient (CC)						-
Relative Accuracy (Compared in Actual) (%)						0.00
Relative Accuracy Criteria ^{1/} (%)						≤ 1%

Reference Method : US EPA Method 3A

Remark: * Sample with * is a rejected data

^{1/} Relative Accuracy Criteria of O2 is refer to 40 CFR Part 60 Appendix B : Performance Specification Test 3 (PS-3)

RA Result is within Criteria

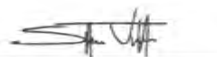
Sampled By : Worawich Tongpoom

Technical Management


Wichan Choonharat
Manager

โทรศัพท์ 0-204-6113

Approved by


Sarayuth Jitranont
Assistant General Manager

โทรศัพท์ 0-204-4702

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 5000 FAX +66 0 2760 5197
ALS LABORATORY GROUP (THAILAND) CO., LTD. Part of the ALS Group.

Life Sciences

www.alsglobal.com

FORM 532 ENAR

RIGHT SOLUTIONS FOR ALL YOUR NEEDS

S:\Reports\Stack_CEM\1.rpt

ภาคผนวก ข-3

ใบรับรองผลการตรวจวัดคุณภาพน้ำ



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC

Lot ID: 241855
Date Received : Jan 11, 2024
Date Reported : Jan 26, 2024
Report Number : 2879008-1 C8

TESTING
No.0042

Page 1 of 2

Sample Number	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
241855-1							
Sampling Date	Jan 11, 2024 1:57 PM						
Sample Description	Wastewater						
Location	อุตสาหกรรมจากกระบวนการผลิตปิโตรเลียม MOC Check Pit						
Date Analysis Commenced	Jan 11, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	62.4	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	152	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.4	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4640	≤9000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	33	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline: Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Nattawut Athomprommarat, Thanasoun Namakunna

Remark :
- LOD : Limit of Detection

Technical Management

N. Banthit

Narumon Banchongkit
Supervisor
หมายเลขโทรศัพท์ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Manager
หมายเลขโทรศัพท์ ๖-225-๙-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

1002-512/THAI



TESTING
No.0042



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC

Lot ID: 241855
Date Received : Jan 11, 2024
Date Reported : Jan 26, 2024
Report Number : 2879008-1 C8

TESTING
No.0042

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banthit

Narumon Banchongkit
Supervisor
หมายเลขโทรศัพท์ ๖-323-๙-9445

Approved by

D. Changchon

Dej Changchon
Manager
หมายเลขโทรศัพท์ ๖-225-๙-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

1002-512/THAI





Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location : MOC

Sample Number	241855-1						
Sampling Date	Jan 11, 2024 1:57 PM						
Sample Description	Wastewater						
Location	ศูนย์ภาพน้ำจากกระบวนการผลิตน้ำเสียขั้นต้น MOC Check Pit						
Date Analysis Commenced	Jan 11, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and four plastic bottles. Sample containers comply to pretreatment - preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Benzene	mg/L	0.00015	0.0005	0.0050	No Standard	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Flow rate *	m3/hr	-	-	55.0	No Standard	Flow meter	Rayong

Guideline: Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Nattawut Athomprommarat , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Siriluk P.

Siriluk Puengpang
Section Head

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.

1997-2024



TESTING
No.0009

Lot ID: 241855
Date Received : Jan 11, 2024
Date Reported : Jan 26, 2024
Report Number : 2879008-2 C8

Page 1 of 1



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location : MOC

Sample Number	2411598-1						
Sampling Date	Feb 08, 2024 2:10 PM						
Sample Description	Wastewater						
Location	ศูนย์ภาพน้ำจากกระบวนการผลิตน้ำเสียขั้นต้น MOC Check Pit						
Date Analysis Commenced	Feb 08, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	59.8	≤500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	184	≤750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	32.5	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	4340	≤9000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	46	≤300	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline: Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Wanlop Hunchainaw , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection

Technical Management

N. Banthong

Narumon Banthongkit
Supervisor
ทะเบียนเลขที่ 2-323-2-9445

Approved by

D. Chongchon

Dej Chongchon
Manager
ทะเบียนเลขที่ 2-225-2-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.

1997-2024



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC



TESTING
No.0042

Lot ID: 2411598
Date Received : Feb 08, 2024
Date Reported : Feb 16, 2024
Report Number : 2897893-1 C8

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC



TESTING
No.0009

Lot ID: 2411598
Date Received : Feb 08, 2024
Date Reported : Feb 16, 2024
Report Number : 2897893-2 C8

Page 1 of 1

Sample Number	2411598-1						
Sampling Date	Feb 08, 2024 2:10 PM						
Sample Description	Wastewater						
Location	ศูนย์การนำจากกระบวนการผลิตน้ำเสียขั้นต้น MOC Check Pit						
Date Analysis Commenced	Feb 08, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Benzene	mg/L	0.00015	0.0005	0.0012	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Flow rate *	m3/hr	-	-	50.0	No Standard	Flow meter	Rayong

Guideline: Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Wanlop Hunchainaw , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรศัพท์มือถือ ๖-323-๙-๙๔๔5

Approved by

D. Changchon

Dej Changchon
Manager
โทรศัพท์มือถือ ๖-225-๙-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Plaekdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Approved by

Suwimon C

Suwimon Chairuangwut
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2497-SU-ENGL



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location : MOC



TESTING
No.0042

Lot ID: 2418470
Date Received : Mar 07, 2024
Date Reported : Mar 15, 2024
Report Number : 2913181-1

Page 1 of 2

Sample Number	2418470-1						
Sampled Date	Mar 07, 2024 2:00 PM						
Sample Description	Wastewater						
Location	คุณภาพจากกระบวนการผลิตน้ำมันดิบ MOC Check Pit						
Date Analysis Commenced	Mar 07, 2024						
Condition of Sample	Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	—	2.0	55.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	150	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	—	3	3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	—	—	—	8.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature °C	Degree C	—	—	33.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	—	5	4700	≤9000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	—	5	47	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Wanlop Hunchainaw , Thanasoun Namakunna

Remark :

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

N. Banhongkit

Narumon Banchongkit
Supervisor



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O :
Project Name : Environmental Monitoring
Project Location : MOC



TESTING
No.0042

Lot ID: 2418470
Date Received : Mar 07, 2024
Date Reported : Mar 15, 2024
Report Number : 2913181-1

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

N. Banhongkit

Narumon Banchongkit
Supervisor

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT TIME

7487-S1/ENMS

S:\Report\AL_GL_01 (10-1AM)

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT TIME

7487-S1/ENMS

S:\Report\AL_GL_02 (10-1AM)



Analysis / Test Report



TESTING
No.0009

Lot ID: 2418470

Date Received : Mar 07, 2024

Date Reported : Mar 15, 2024

Report Number : 2913181-2

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : MOC

Sample Number 2418470-1
Sampled Date Mar 07, 2024 2:00 PM
Sample Description Wastewater
Location หอกลั่นน้ำจากกระบวนการผลิตน้ำมันดิบ MOC Check Pit
Date Analysis Commenced Mar 07, 2024
Condition of Sample Contained in one amber glass bottle, two glass vials and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Benzene *	mg/L	0.00015	0.0005	0.0069	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Flow rate *	m ³ /hr	-	-	45.00	No Standard	Flow meter	Rayong

Guideline : Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Wanlop Hunchanaow , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- * < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

299/10/1940

S:\Reports\AL-GL-101 (17-07-19)



Analysis / Test Report



TESTING
No.0042

Lot ID: 2435259

Date Received : Apr 10, 2024

Date Reported : Apr 22, 2024

Report Number : 2948558-1

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : MOC

Sample Number 2435259-1
Sampled Date Apr 10, 2024 2:10 PM
Sample Description Wastewater
Location หอกลั่นน้ำจากกระบวนการผลิตน้ำมันดิบ MOC Check Pit
Date Analysis Commenced Apr 10, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	17.1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	104	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	34.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2300	≤9000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :

Approved by

N. Banchoangkit

Nanumon Banchoangkit
Supervisor

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

299/10/1940

S:\Reports\AL-GL-101 (17-07-19)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : MOC



TESTING
No.0042

Lot ID: 2435259

Date Received : Apr 10, 2024

Date Reported : Apr 22, 2024

Report Number : 2948558-1

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O :

Project Name : Environmental Monitoring

Project Location : MOC



TESTING
No.0009

Lot ID: 2435259

Date Received : Apr 10, 2024

Date Reported : Apr 22, 2024

Report Number : 2948558-2

Page 1 of 1

Sample Number	2435259-1						
Sampled Date	Apr 10, 2024 2:10 PM						
Sample Description	Wastewater						
Location	ศุภภาพน้ำจากกระบวนการผลิตน้ำมัน MOC Check Pit						
Date Analysis Commenced	Apr 10, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Benzene	mg/L	0.00015	0.0005	0.0034	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Flow rate *	m3/s	-	-	50.0	No Standard	Flow meter	Rayong

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

N. Banchoangkit

Narumon Banchoangkit
Supervisor

ADDRESS 616/10 Moo 3 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

709-531908

5/Report_Alt_GL.pdf (1.4 KB)

Approved by

Siriluk P.

Siriluk Bunrak
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

749-551903

5/Report_Alt_GL.pdf (1.5 KB)



Analysis / Test Report

TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC

Lot ID: 2462146
Date Received : May 31, 2024
Date Reported : Jun 07, 2024
Report Number : 3009209-1 C8

Page 1 of 2

Sample Number	2462146-1						
Sampling Date	May 31, 2024 3:45 PM						
Sample Description	Wastewater						
Location	จุดเก็บน้ำจากกระบวนการผลิตขั้นต้น MOC Check Pit						
Date Analysis Commenced	May 31, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and five plastic bottles. Sample containers comply to pretreatment + preservation standards (APHA / USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	21.8	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	72	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	37.8	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2290	≤9000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline: Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampling By : Wanlop Hunchainaow , Kardbundit Kilisupavanit

Remark :

- LOD : Limit of Detection

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

เบอร์โทรมือถือ ๖-323-๙-๙446

Approved by

D. Chamon

Dej Changchon

Manager

เบอร์โทรมือถือ ๖-225-๙-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

100-51/0940



Analysis / Test Report

TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location: MOC

Lot ID: 2462146
Date Received : May 31, 2024
Date Reported : Jun 07, 2024
Report Number : 3009209-1 C8

Page 2 of 2

- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

เบอร์โทรมือถือ ๖-323-๙-๙446

Approved by

D. Chamon

Dej Changchon

Manager

เบอร์โทรมือถือ ๖-225-๙-5283

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

100-51/0940



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location : MOC



TESTING
No.0042
Lot ID: 2461235
Date Received : Jun 13, 2024
Date Reported : Jun 22, 2024
Report Number : 3007295-1 C8

Page 1 of 2

Sample Number 2461235-1
Sampled Date Jun 13, 2024 2:15 PM
Sample Description Wastewater
Location คุณภาพน้ำจากกระบวนการผลิตขั้นต้น MOC Check Pit
Date Analysis Commenced Jun 13, 2024
Condition of Sample Contained in two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	52.9	≤500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	139	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C	-	-	-	8.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Temperature *	Degree C	-	-	34.5	≤45	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	6300	≤9000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	31	≤300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

เบอร์โทรศัพท์ 7-323-4-9446

Approved by

D. Chongchon

Dej Chongchon
Senior Manager

เบอร์โทรศัพท์ 7-323-4-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PEOPLE. RIGHT PLACE.

7-030-517-0100



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : 5002224246
Project Name : Environmental Monitoring
Project Location : MOC



TESTING
No.0042
Lot ID: 2461235
Date Received : Jun 13, 2024
Date Reported : Jun 22, 2024
Report Number : 3007295-1 C8

Page 2 of 2

Sampled By : Tanasit Wongsachai เบอร์โทรศัพท์ 7-323-4-9460, Thanasson Namakunna เบอร์โทรศัพท์ 7-204-4-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)

เบอร์โทรศัพท์ 7-323-4-9446

Approved by

D. Chongchon

Dej Chongchon
Senior Manager

เบอร์โทรศัพท์ 7-323-4-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PEOPLE. RIGHT PLACE.

7-030-517-0100



Analysis / Test Report

TESTING
No.0009

Lot ID: 2461235

Date Received : Jun 13, 2024

Date Reported : Jun 22, 2024

Report Number : 3007295-2 CB

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : 5002224246

Project Name : Environmental Monitoring

Project Location : MOC

Page 1 of 1

Sample Number	Z461235-1						
Sampled Date	Jun 13, 2024 2:15 PM						
Sample Description	Wastewater						
Location	คุณภาพน้ำจากกระบวนการผลิตน้ำมันดิบ MOC Check Pit						
Date Analysis Commenced	Jun 13, 2024						
Condition of Sample	Contained in two glass vials, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Volatile Organics Compounds							
Benzene	mg/L	0.00015	0.0005	0.0058	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Water Testing							
Flow rate: *	m ³ /hr	-	-	37.0	No Standard	Flow meter	Rayong

Guideline : Criteria of wastewater characteristic from factory discharge to central wastewater treatment plant of RIL Industrial Estate.

Sampled By : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- * < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Nant Somb

Nanthawadee Somboon
Specialist 2

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE RIGHT TIME

789752/08AB

ภาคผนวก ข-4

ใบรับรองผลการตรวจวัดคุณภาพน้ำใต้ดิน



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2418420
Date Received : Mar 13, 2024
Date Reported : Mar 21, 2024
Report Number : 2943899-2

Page 1 of 2

Sample Number	2418420-4
Sampled Date	Mar 13, 2024 2:42 PM
Sample Description	Groundwater
Location	บ่อด D6
Date Analysis Commenced	Mar 14, 2024
Condition of Sample	Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	-	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ๖-๓๒๓-๖-๐๐๐๖ , Thanasoun Namakunna ทะเบียนเลขที่ ๖-๒๐๔-๖-๐๑๐๑

Remark :

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head
ทะเบียนเลขที่ ๖-๒๐๔-๖-๐๐๑๓

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-๒๐๔-๖-๐๐๐๔

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2418420
Date Received : Mar 13, 2024
Date Reported : Mar 21, 2024
Report Number : 2943899-2

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2418420
Date Received : Mar 13, 2024
Date Reported : Mar 21, 2024
Report Number : 2943900-2

Page 1 of 2

Sample Number 2418420-5
Sampled Date Mar 13, 2024 10:36 AM
Sample Description Groundwater
Location บ่ U2
Date Analysis Commenced Mar 14, 2024
Condition of Sample Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	—	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_All_GL.rpt (6:06PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2418420
Date Received : Mar 13, 2024
Date Reported : Mar 21, 2024
Report Number : 2943900-2

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T, Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2418420
Date Received : Mar 13, 2024
Date Reported : Mar 21, 2024
Report Number : 2943901-2

Page 1 of 2

Sample Number 2418420-6
Sampled Date Mar 13, 2024 11:59 AM
Sample Description Groundwater
Location บ่อก U3
Date Analysis Commenced Mar 14, 2024
Condition of Sample Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	-	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

\\Reports_All_GL_rpt (6:06PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

TESTING

No.0009

Lot ID: 2418420

Date Received : Mar 13, 2024

Date Reported : Mar 21, 2024

Report Number : 2943901-2

Page 2 of 2

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2428770
Date Received : Mar 14, 2024
Date Reported : Mar 22, 2024
Report Number : 2944947-1

Page 1 of 1

Sample Number	2428770-1						
Sampled Date	Mar 14, 2024 2:46 PM						
Sample Description	Groundwater						
Location	บ่อบ D3						
Date Analysis Commenced	Mar 15, 2024						
Condition of Sample	Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	-	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\All_GL.rpt (7:35PM)



Analysis / Test Report

TESTING
No.0009

Lot ID: 2428770

Date Received : Mar 14, 2024

Date Reported : Mar 22, 2024

Report Number : 2944948-1

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Page 1 of 1

Sample Number	2428770-2
Sampled Date	Mar 14, 2024 11:08 AM
Sample Description	Groundwater
Location	บ่อบาดาล D4
Date Analysis Commenced	Mar 15, 2024
Condition of Sample	Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	-	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakari Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

TESTING
No.0009
Lot ID: 2428770
Date Received : Mar 14, 2024
Date Reported : Mar 22, 2024
Report Number : 2944949-1

Page 1 of 1

Sample Number 2428770-3
Sampled Date Mar 14, 2024 10:23 AM
Sample Description Groundwater
Location บ่ D5
Date Analysis Commenced Mar 15, 2024
Condition of Sample Contained in four glass vials, two amber glass bottles and one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol *	mg/L	—	0.01	<0.01	60	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B, 6200B	Bangkok
Volatile Organics Compounds							
Benzene	mg/L	0.00003	0.0005	Not Detected	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Ethylbenzene	mg/L	0.00003	0.0005	Not Detected	2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Toluene	mg/L	0.00004	0.0005	Not Detected	5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok
Total Xylene	mg/L	0.00004	0.0015	Not Detected	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6200 B	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Sampling By : Nattawut Athomprommarat ทะเบียนเลขที่ ว-323-จ-0006 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ภาคผนวก ข-5

ใบรับรองผลการตรวจวัดคุณภาพดิน



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418433

Date Received : Mar 13, 2024
Date Reported : Mar 29, 2024
Report Number : 2950552-1

Page 1 of 1

Sample Number 2418433-4
Sampled Date Mar 13, 2024 2:25 PM
Sample Description Soil
Location บ่อก D6
Date Analysis Commenced Mar 14, 2024
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418433

Date Received : Mar 13, 2024
Date Reported : Mar 29, 2024
Report Number : 2950553-1

Page 1 of 1

Sample Number 2418433-5
Sampled Date Mar 13, 2024 10:15 AM
Sample Description Soil
Location บ่อก U2
Date Analysis Commenced Mar 14, 2024
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 1
ทะเบียนเลขที่ ๖-204-๖-0010

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\reports\All_GL.rpt (1:15PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2418433

Date Received : Mar 13, 2024
Date Reported : Mar 29, 2024
Report Number : 2950555-1

Page 1 of 1

Sample Number 2418433-6
Sampled Date Mar 13, 2024 11:31 AM
Sample Description Soil
Location บ่ U3
Date Analysis Commenced Mar 14, 2024
Condition of Sample Packed in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 1
ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2428771

Date Received : Mar 14, 2024
Date Reported : Mar 29, 2024
Report Number : 2950543-1

Page 1 of 1

Sample Number 2428771-1
Sampled Date Mar 14, 2024 2:20 PM
Sample Description Soil
Location ไร่ D3
Date Analysis Commenced Mar 15, 2024
Condition of Sample Packed in two glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon
Specialist 1
ทะเบียนเลขที่ ๖-204-๖-0010

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ๖-204-๖-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2428771

Date Received : Mar 14, 2024
Date Reported : Mar 29, 2024
Report Number : 2950544-1

Page 1 of 1

Sample Number 2428771-2
Sampled Date Mar 14, 2024 10:40 AM
Sample Description Soil
Location บ่ D4
Date Analysis Commenced Mar 15, 2024
Condition of Sample Packed in two glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ว-204-จ-0010

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

749751/ EMAIL

S:\Reports\All_GL.rpt (2:05PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2428771

Date Received : Mar 14, 2024
Date Reported : Mar 29, 2024
Report Number : 2950545-1

Page 1 of 1

Sample Number 2428771-3
Sampled Date Mar 14, 2024 9:50 AM
Sample Description Soil
Location บ่า D5
Date Analysis Commenced Mar 15, 2024
Condition of Sample Packed in two glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Organic Compounds							
Methanol	mg/kg	-	10	<10	1000	United States Environmental Protection Agency, EPA Method 5021 A and 8260 D	Bangkok
Volatile Organics Compounds							
Benzene	mg/kg	-	0.05	<0.05	15	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Ethylbenzene	mg/kg	-	0.05	<0.05	230	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Toluene	mg/kg	-	0.05	<0.05	520	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok
Total Xylene	mg/kg	-	0.2	<0.2	210	United States Environmental Protection Agency, EPA Method 5035 and 8260 D	Bangkok

Guideline : Notification of the Ministry of Industry B.E. 2559 (2016) on Soil and Groundwater Contamination Criteria, Monitoring of Soil and Groundwater Quality, Report Submission and Report Preparation of Soil and Groundwater Quality, and Proposal Report of Soil and Groundwater Controlling and Reduction Measures

Note : 1. Analysis Results expressed on dry basis

Sampling By : Thanasoun Namakunna ทะเบียนเลขที่ ๖-204-๖-0101

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Nant Somb

Nanthawadee Somboon

Specialist 1

ทะเบียนเลขที่ ๖-204-๖-0010

Approved by

Kanok Korn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ๖-204-๖-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\All_Gl.rpt (2:05PM)

ภาคผนวก ข-6

ใบรับรองผลการตรวจวัดระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Lot ID: 2432546

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964958-1

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Sample Number : 2432546-3
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณบ้านหนอง (บริเวณเนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 04 - Apr 05, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 1120936

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.4	73.0	52.2
10:00 AM - 11:00 AM	56.3	75.2	51.9
11:00 AM - 12:00 PM	56.2	69.9	51.3
12:00 PM - 01:00 PM	56.2	72.6	52.3
01:00 PM - 02:00 PM	57.0	72.9	52.8
02:00 PM - 03:00 PM	57.9	74.0	53.6
03:00 PM - 04:00 PM	58.0	78.6	54.7
04:00 PM - 05:00 PM	59.4	77.9	56.2
05:00 PM - 06:00 PM	56.9	76.6	54.1
06:00 PM - 07:00 PM	56.4	72.5	53.4
07:00 PM - 08:00 PM	56.4	71.5	53.8
08:00 PM - 09:00 PM	55.5	82.5	52.4
09:00 PM - 10:00 PM	54.4	70.7	50.9
10:00 PM - 11:00 PM	54.3	67.1	51.5
11:00 PM - 12:00 AM	54.3	67.7	51.6
12:00 AM - 01:00 AM	54.1	68.7	52.0
01:00 AM - 02:00 AM	54.0	70.3	51.0
02:00 AM - 03:00 AM	53.8	64.4	50.7
03:00 AM - 04:00 AM	55.8	70.7	52.6
04:00 AM - 05:00 AM	58.2	81.1	55.2
05:00 AM - 06:00 AM	59.6	76.1	56.0
06:00 AM - 07:00 AM	56.8	67.2	53.2
07:00 AM - 08:00 AM	56.1	73.7	51.6
08:00 AM - 09:00 AM	56.5	76.0	51.6

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supt S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports\Air Noise rpt (11.02AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Lot ID: 2432546

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964959-1

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Sample Number : 2432546-4
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณบ้านหนอง (บริเวณเนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 05 - Apr 06, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 1120936

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.2	74.0	49.7
10:00 AM - 11:00 AM	56.1	76.8	50.8
11:00 AM - 12:00 PM	56.2	75.9	50.7
12:00 PM - 01:00 PM	55.5	75.7	49.8
01:00 PM - 02:00 PM	54.8	71.5	48.6
02:00 PM - 03:00 PM	55.4	68.5	49.6
03:00 PM - 04:00 PM	57.9	78.8	52.7
04:00 PM - 05:00 PM	57.2	75.9	52.5
05:00 PM - 06:00 PM	60.5	78.1	57.3
06:00 PM - 07:00 PM	56.6	79.7	50.2
07:00 PM - 08:00 PM	55.2	74.5	49.0
08:00 PM - 09:00 PM	53.5	74.0	48.0
09:00 PM - 10:00 PM	51.9	73.9	47.3
10:00 PM - 11:00 PM	51.9	72.0	47.6
11:00 PM - 12:00 AM	52.5	75.2	46.7
12:00 AM - 01:00 AM	52.4	78.2	46.5
01:00 AM - 02:00 AM	49.9	67.9	46.3
02:00 AM - 03:00 AM	49.2	67.2	46.0
03:00 AM - 04:00 AM	50.9	69.6	46.3
04:00 AM - 05:00 AM	58.4	70.2	53.6
05:00 AM - 06:00 AM	56.2	72.0	50.5
06:00 AM - 07:00 AM	57.8	77.0	52.0
07:00 AM - 08:00 AM	56.1	81.4	49.7
08:00 AM - 09:00 AM	55.7	72.5	49.9

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supt S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports\Air Noise rpt (11.02AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432546

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964960-1

Page 1 of 1

Sample Number 2432546-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านพัก (ชุมชนนิคมถาวร) (GPS 47P 0736517, 1411244)
Measurement Date Apr 06 - Apr 07, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120936

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.5	72.8	51.3
10:00 AM - 11:00 AM	55.5	71.2	50.8
11:00 AM - 12:00 PM	56.6	73.2	51.6
12:00 PM - 01:00 PM	56.7	78.3	51.9
01:00 PM - 02:00 PM	56.6	71.0	52.1
02:00 PM - 03:00 PM	57.8	74.0	53.8
03:00 PM - 04:00 PM	57.9	74.2	54.1
04:00 PM - 05:00 PM	61.2	81.8	57.8
05:00 PM - 06:00 PM	56.8	75.1	53.1
06:00 PM - 07:00 PM	55.6	70.9	52.2
07:00 PM - 08:00 PM	55.2	75.3	51.9
08:00 PM - 09:00 PM	54.3	71.0	51.0
09:00 PM - 10:00 PM	54.3	67.9	51.5
10:00 PM - 11:00 PM	53.9	67.3	51.2
11:00 PM - 12:00 AM	52.8	62.3	50.3
12:00 AM - 01:00 AM	53.4	72.0	50.9
01:00 AM - 02:00 AM	54.1	73.6	50.8
02:00 AM - 03:00 AM	54.5	66.8	51.8
03:00 AM - 04:00 AM	58.2	71.9	52.8
04:00 AM - 05:00 AM	57.2	81.2	53.1
05:00 AM - 06:00 AM	56.8	70.4	52.9
06:00 AM - 07:00 AM	56.1	72.2	51.5
07:00 AM - 08:00 AM	56.0	68.5	52.0
08:00 AM - 09:00 AM	54.6	75.9	51.3

Leq Average 24 hrs. (dB(A))

56.4

Lmax (dB(A))

81.8

L90 (dB(A))

51.8

Ldn (dB(A))

62.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsunwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Noise.rpt (11:02AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432546

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964961-1

Page 1 of 1

Sample Number 2432546-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านพัก (ชุมชนนิคมถาวร) (GPS 47P 0736517, 1411244)
Measurement Date Apr 07 - Apr 08, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120936

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.0	76.2	49.5
10:00 AM - 11:00 AM	55.5	71.8	49.7
11:00 AM - 12:00 PM	56.2	69.6	51.7
12:00 PM - 01:00 PM	56.3	70.9	51.3
01:00 PM - 02:00 PM	57.3	78.1	52.4
02:00 PM - 03:00 PM	56.3	71.6	52.0
03:00 PM - 04:00 PM	58.7	79.7	54.6
04:00 PM - 05:00 PM	59.0	76.5	55.0
05:00 PM - 06:00 PM	58.8	82.4	54.2
06:00 PM - 07:00 PM	57.2	76.7	53.8
07:00 PM - 08:00 PM	56.6	73.9	53.4
08:00 PM - 09:00 PM	55.2	72.3	51.7
09:00 PM - 10:00 PM	54.8	72.7	51.1
10:00 PM - 11:00 PM	54.3	74.2	50.9
11:00 PM - 12:00 AM	54.4	72.8	50.6
12:00 AM - 01:00 AM	53.1	65.8	50.3
01:00 AM - 02:00 AM	53.0	70.9	50.3
02:00 AM - 03:00 AM	52.8	64.5	50.9
03:00 AM - 04:00 AM	53.8	69.4	50.7
04:00 AM - 05:00 AM	56.7	75.5	52.9
05:00 AM - 06:00 AM	57.8	73.5	54.1
06:00 AM - 07:00 AM	59.8	77.9	56.4
07:00 AM - 08:00 AM	59.1	78.8	54.5
08:00 AM - 09:00 AM	55.8	71.1	51.6

Leq Average 24 hrs. (dB(A))

56.6

Lmax (dB(A))

82.4

L90 (dB(A))

51.7

Ldn (dB(A))

62.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsunwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports_Air Noise.rpt (11:02AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432546
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964962-1

Page 1 of 1

Sample Number : 2432546-7
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณบ้านหนอง (ชุมชนเนินทอง) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 08 - Apr 09, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 1120936

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.8	72.0	50.8
10:00 AM - 11:00 AM	55.6	69.5	51.0
11:00 AM - 12:00 PM	54.8	73.1	50.2
12:00 PM - 01:00 PM	55.5	69.6	50.5
01:00 PM - 02:00 PM	55.8	73.2	50.8
02:00 PM - 03:00 PM	55.8	75.0	51.6
03:00 PM - 04:00 PM	56.4	77.7	51.5
04:00 PM - 05:00 PM	57.0	78.5	52.1
05:00 PM - 06:00 PM	58.0	74.3	53.9
06:00 PM - 07:00 PM	57.5	76.4	52.5
07:00 PM - 08:00 PM	55.7	72.1	51.5
08:00 PM - 09:00 PM	55.0	73.2	50.6
09:00 PM - 10:00 PM	53.3	70.1	49.7
10:00 PM - 11:00 PM	53.3	75.6	48.9
11:00 PM - 12:00 AM	51.6	74.0	48.7
12:00 AM - 01:00 AM	51.8	66.5	49.0
01:00 AM - 02:00 AM	53.5	68.8	51.2
02:00 AM - 03:00 AM	53.3	71.1	51.5
03:00 AM - 04:00 AM	53.8	62.3	51.8
04:00 AM - 05:00 AM	53.9	64.9	51.4
05:00 AM - 06:00 AM	54.1	66.5	51.1
06:00 AM - 07:00 AM	57.4	76.8	53.2
07:00 AM - 08:00 AM	58.8	77.5	54.9
08:00 AM - 09:00 AM	56.5	73.0	52.1

Leq Average 24 hrs. (dB(A)) : 55.6
Lmax (dB(A)) : 78.5
L90 (dB(A)) : 51.2
Ldn (dB(A)) : 60.8
Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.
Thanita Kulsumwong
Scientist (4)

Approved by

Supt S
Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 : T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS FASTER RESPONSE

7497-51/ EMAIL

S:\Reports_Air Noise\rcr\1102AM



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432564
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964966-1

Page 1 of 1

Sample Number : 2432564-1
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณบ้านหนอง (GPS 47P 0735238, 1409020)
Measurement Date : Apr 02 - Apr 03, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.4	72.2	41.0
11:00 AM - 12:00 PM	46.4	63.3	40.8
12:00 PM - 01:00 PM	48.7	71.2	43.0
01:00 PM - 02:00 PM	47.0	67.8	40.9
02:00 PM - 03:00 PM	46.4	62.7	41.5
03:00 PM - 04:00 PM	47.6	71.7	41.6
04:00 PM - 05:00 PM	48.6	76.2	44.0
05:00 PM - 06:00 PM	49.4	77.0	44.1
06:00 PM - 07:00 PM	48.1	63.5	43.7
07:00 PM - 08:00 PM	47.7	61.1	44.8
08:00 PM - 09:00 PM	44.8	60.2	41.8
09:00 PM - 10:00 PM	45.0	66.2	41.1
10:00 PM - 11:00 PM	44.9	60.4	42.6
11:00 PM - 12:00 AM	44.4	58.6	42.0
12:00 AM - 01:00 AM	43.3	57.1	40.6
01:00 AM - 02:00 AM	44.4	60.0	40.9
02:00 AM - 03:00 AM	41.4	54.0	38.6
03:00 AM - 04:00 AM	41.5	60.6	38.9
04:00 AM - 05:00 AM	42.3	59.1	39.7
05:00 AM - 06:00 AM	47.2	63.3	42.7
06:00 AM - 07:00 AM	49.4	71.1	44.3
07:00 AM - 08:00 AM	49.6	66.8	45.3
08:00 AM - 09:00 AM	49.3	68.1	44.6
09:00 AM - 10:00 AM	48.1	66.2	42.7

Leq Average 24 hrs. (dB(A)) : 47.0
Lmax (dB(A)) : 77.0
L90 (dB(A)) : 41.8
Ldn (dB(A)) : 52.0
Standard (dB(A)) : 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.
Thanita Kulsumwong
Scientist (4)

Approved by

Supt S
Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 : T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS FASTER RESPONSE

7497-51/ EMAIL

S:\Reports_Air Noise\rcr\1119AM



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964967-1

Page 1 of 1

Sample Number 2432564-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.5	72.9	41.8
11:00 AM - 12:00 PM	48.2	67.4	43.0
12:00 PM - 01:00 PM	46.4	66.9	42.1
01:00 PM - 02:00 PM	47.4	66.8	42.7
02:00 PM - 03:00 PM	46.2	62.8	42.5
03:00 PM - 04:00 PM	48.2	66.8	43.5
04:00 PM - 05:00 PM	49.5	72.8	44.6
05:00 PM - 06:00 PM	49.4	69.1	45.6
06:00 PM - 07:00 PM	47.5	62.6	44.0
07:00 PM - 08:00 PM	46.5	65.3	43.6
08:00 PM - 09:00 PM	45.4	63.3	42.8
09:00 PM - 10:00 PM	45.0	67.8	42.2
10:00 PM - 11:00 PM	43.9	58.3	41.3
11:00 PM - 12:00 AM	44.1	62.5	41.3
12:00 AM - 01:00 AM	46.5	65.2	44.2
01:00 AM - 02:00 AM	45.7	52.5	42.9
02:00 AM - 03:00 AM	42.7	53.8	40.6
03:00 AM - 04:00 AM	42.2	54.6	40.4
04:00 AM - 05:00 AM	44.4	60.2	40.6
05:00 AM - 06:00 AM	48.8	64.2	44.0
06:00 AM - 07:00 AM	49.0	74.5	44.1
07:00 AM - 08:00 AM	49.2	69.5	44.2
08:00 AM - 09:00 AM	47.2	64.3	42.9
09:00 AM - 10:00 AM	46.1	65.6	42.4

Leq Average 24 hrs. (dB(A)) 46.9
Lmax (dB(A)) 74.5
L90 (dB(A)) 42.8
Ldn (dB(A)) 52.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pua-kaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Noise rpt (11:13AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964968-1

Page 1 of 1

Sample Number 2432564-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.7	71.7	41.7
11:00 AM - 12:00 PM	45.5	61.4	41.4
12:00 PM - 01:00 PM	49.1	74.4	44.2
01:00 PM - 02:00 PM	45.5	68.8	40.9
02:00 PM - 03:00 PM	46.2	72.3	40.7
03:00 PM - 04:00 PM	47.1	64.6	42.8
04:00 PM - 05:00 PM	47.0	64.6	43.4
05:00 PM - 06:00 PM	48.5	68.8	44.7
06:00 PM - 07:00 PM	49.1	67.0	43.5
07:00 PM - 08:00 PM	45.5	58.2	42.3
08:00 PM - 09:00 PM	45.1	61.7	42.0
09:00 PM - 10:00 PM	45.4	59.3	41.9
10:00 PM - 11:00 PM	47.7	61.1	45.3
11:00 PM - 12:00 AM	50.7	64.3	48.5
12:00 AM - 01:00 AM	48.8	63.3	46.0
01:00 AM - 02:00 AM	47.6	61.4	43.5
02:00 AM - 03:00 AM	41.8	56.8	39.0
03:00 AM - 04:00 AM	42.2	56.0	40.6
04:00 AM - 05:00 AM	46.8	55.8	43.9
05:00 AM - 06:00 AM	48.1	68.5	44.5
06:00 AM - 07:00 AM	48.8	67.9	44.1
07:00 AM - 08:00 AM	50.2	68.6	44.8
08:00 AM - 09:00 AM	48.4	75.5	43.0
09:00 AM - 10:00 AM	45.2	68.7	40.6

Leq Average 24 hrs. (dB(A)) 47.4
Lmax (dB(A)) 75.5
L90 (dB(A)) 43.0
Ldn (dB(A)) 54.1
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pua-kaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Noise rpt (11:19AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964969-1

Page 1 of 1

Sample Number 2432564-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านถนน (GPS 47P 0735238, 1409020)
Measurement Date Apr 05 - Apr 06, 2024
Measurement by Chatchai Sukpis
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.8	72.7	41.8
11:00 AM - 12:00 PM	49.8	66.3	44.7
12:00 PM - 01:00 PM	49.6	71.8	41.5
01:00 PM - 02:00 PM	48.8	70.6	41.9
02:00 PM - 03:00 PM	44.7	63.9	40.2
03:00 PM - 04:00 PM	46.7	63.7	42.8
04:00 PM - 05:00 PM	50.4	69.1	46.2
05:00 PM - 06:00 PM	48.2	70.3	43.9
06:00 PM - 07:00 PM	55.2	68.1	52.6
07:00 PM - 08:00 PM	45.1	62.9	42.2
08:00 PM - 09:00 PM	46.0	69.1	41.0
09:00 PM - 10:00 PM	44.0	61.4	40.6
10:00 PM - 11:00 PM	44.2	65.8	39.6
11:00 PM - 12:00 AM	43.1	60.5	39.7
12:00 AM - 01:00 AM	42.9	62.3	40.0
01:00 AM - 02:00 AM	45.3	61.3	41.6
02:00 AM - 03:00 AM	41.3	62.8	38.9
03:00 AM - 04:00 AM	41.1	59.3	39.0
04:00 AM - 05:00 AM	43.5	61.9	40.0
05:00 AM - 06:00 AM	49.4	73.9	45.0
06:00 AM - 07:00 AM	48.2	63.2	43.8
07:00 AM - 08:00 AM	48.3	67.5	43.9
08:00 AM - 09:00 AM	45.6	61.5	41.7
09:00 AM - 10:00 AM	46.3	65.5	41.5

Leq Average 24 hrs. (dB(A))

47.8

Lmax (dB(A))

73.9

L90 (dB(A))

41.6

Ldn (dB(A))

52.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCE

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports\Air Noise rpt (11.18AM)

7/87-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964970-1

Page 1 of 1

Sample Number 2432564-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านถนน (GPS 47P 0735238, 1409020)
Measurement Date Apr 06 - Apr 07, 2024
Measurement by Chatchai Sukpis
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.1	67.4	41.7
11:00 AM - 12:00 PM	46.4	66.9	41.5
12:00 PM - 01:00 PM	47.1	65.7	42.8
01:00 PM - 02:00 PM	47.6	67.6	42.9
02:00 PM - 03:00 PM	47.3	64.6	43.2
03:00 PM - 04:00 PM	47.0	67.4	42.7
04:00 PM - 05:00 PM	48.3	68.0	44.3
05:00 PM - 06:00 PM	57.1	68.4	48.9
06:00 PM - 07:00 PM	46.0	65.2	42.9
07:00 PM - 08:00 PM	45.2	60.6	41.9
08:00 PM - 09:00 PM	45.3	62.8	41.9
09:00 PM - 10:00 PM	44.3	58.0	41.7
10:00 PM - 11:00 PM	50.0	63.7	44.0
11:00 PM - 12:00 AM	47.3	63.5	40.3
12:00 AM - 01:00 AM	41.3	56.3	39.2
01:00 AM - 02:00 AM	41.4	63.8	38.7
02:00 AM - 03:00 AM	41.0	59.6	38.6
03:00 AM - 04:00 AM	41.2	57.5	38.6
04:00 AM - 05:00 AM	53.6	72.7	48.8
05:00 AM - 06:00 AM	47.8	67.4	43.9
06:00 AM - 07:00 AM	47.6	68.2	42.9
07:00 AM - 08:00 AM	46.2	64.3	41.7
08:00 AM - 09:00 AM	46.8	69.0	41.9
09:00 AM - 10:00 AM	44.9	60.1	41.0

Leq Average 24 hrs. (dB(A))

48.5

Lmax (dB(A))

72.7

L90 (dB(A))

41.9

Ldn (dB(A))

54.4

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCE

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

7/87-51/ EMAIL

S:\Reports\Air Noise rpt (11.18AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150.

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964971-1

Page 1 of 1

Sample Number 2432564-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านคน (GPS 47P 0735238, 1409020)
Measurement Date Apr 07 - Apr 08, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.4	64.3	42.0
11:00 AM - 12:00 PM	45.0	65.1	41.0
12:00 PM - 01:00 PM	47.8	77.8	40.3
01:00 PM - 02:00 PM	47.4	73.4	39.8
02:00 PM - 03:00 PM	46.4	69.2	40.2
03:00 PM - 04:00 PM	44.8	71.8	41.2
04:00 PM - 05:00 PM	46.2	64.7	41.8
05:00 PM - 06:00 PM	48.5	74.9	43.5
06:00 PM - 07:00 PM	53.8	68.0	49.5
07:00 PM - 08:00 PM	47.0	63.8	42.8
08:00 PM - 09:00 PM	45.9	64.5	41.8
09:00 PM - 10:00 PM	49.4	63.7	47.1
10:00 PM - 11:00 PM	52.0	63.0	50.7
11:00 PM - 12:00 AM	51.3	63.3	49.0
12:00 AM - 01:00 AM	42.7	67.0	39.6
01:00 AM - 02:00 AM	42.2	62.6	39.4
02:00 AM - 03:00 AM	40.7	60.4	38.9
03:00 AM - 04:00 AM	40.2	57.1	38.5
04:00 AM - 05:00 AM	41.5	57.9	38.6
05:00 AM - 06:00 AM	53.9	75.1	48.5
06:00 AM - 07:00 AM	47.9	68.3	43.1
07:00 AM - 08:00 AM	49.8	68.2	43.6
08:00 AM - 09:00 AM	45.0	62.1	39.8
09:00 AM - 10:00 AM	44.6	62.8	40.0

Leq Average 24 hrs. (dB(A)) 48.3
Lmax (dB(A)) 77.8
L90 (dB(A)) 41.2
Ldn (dB(A)) 55.1
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไม่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanit Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise.rpt (11:20AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432564

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964972-1

Page 1 of 1

Sample Number 2432564-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านคน (GPS 47P 0735238, 1409020)
Measurement Date Apr 08 - Apr 09, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 1120938

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	44.2	67.2	39.7
11:00 AM - 12:00 PM	45.5	60.6	40.7
12:00 PM - 01:00 PM	46.6	66.1	41.1
01:00 PM - 02:00 PM	46.5	63.0	42.0
02:00 PM - 03:00 PM	46.0	66.6	40.9
03:00 PM - 04:00 PM	45.1	62.2	41.1
04:00 PM - 05:00 PM	47.6	70.0	43.0
05:00 PM - 06:00 PM	49.3	70.9	44.2
06:00 PM - 07:00 PM	47.7	69.7	43.4
07:00 PM - 08:00 PM	45.5	62.9	42.6
08:00 PM - 09:00 PM	45.6	67.0	41.9
09:00 PM - 10:00 PM	46.5	57.7	44.4
10:00 PM - 11:00 PM	48.6	60.6	46.6
11:00 PM - 12:00 AM	51.4	62.9	50.4
12:00 AM - 01:00 AM	51.5	61.4	50.3
01:00 AM - 02:00 AM	45.5	61.2	43.5
02:00 AM - 03:00 AM	49.8	68.7	47.4
03:00 AM - 04:00 AM	42.3	65.5	38.7
04:00 AM - 05:00 AM	42.1	62.0	38.8
05:00 AM - 06:00 AM	47.0	64.6	41.8
06:00 AM - 07:00 AM	47.5	69.6	43.2
07:00 AM - 08:00 AM	48.8	68.8	43.1
08:00 AM - 09:00 AM	46.8	65.5	40.8
09:00 AM - 10:00 AM	43.5	63.2	38.1

Leq Average 24 hrs. (dB(A)) 47.4
Lmax (dB(A)) 70.9
L90 (dB(A)) 42.0
Ldn (dB(A)) 54.6
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไม่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanit Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise.rpt (11:20AM)

S:\Reports_Air Noise.rpt (11:20AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432565
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964975-1

Page 1 of 1

Sample Number 2432565-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านนาตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 02 - Apr 03, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.2	74.5	47.9
12:00 PM - 01:00 PM	53.5	72.6	49.7
01:00 PM - 02:00 PM	54.4	82.1	50.1
02:00 PM - 03:00 PM	53.1	69.7	48.8
03:00 PM - 04:00 PM	52.9	76.8	49.2
04:00 PM - 05:00 PM	52.9	72.8	48.9
05:00 PM - 06:00 PM	54.6	73.8	50.9
06:00 PM - 07:00 PM	56.0	75.3	52.7
07:00 PM - 08:00 PM	55.0	73.6	50.7
08:00 PM - 09:00 PM	55.5	76.6	52.2
09:00 PM - 10:00 PM	55.2	74.6	51.4
10:00 PM - 11:00 PM	54.4	74.7	49.6
11:00 PM - 12:00 AM	52.5	71.3	49.0
12:00 AM - 01:00 AM	50.8	66.5	47.9
01:00 AM - 02:00 AM	51.0	66.6	48.4
02:00 AM - 03:00 AM	51.3	72.2	48.2
03:00 AM - 04:00 AM	50.4	73.0	47.9
04:00 AM - 05:00 AM	49.9	69.9	47.8
05:00 AM - 06:00 AM	49.5	66.2	46.6
06:00 AM - 07:00 AM	52.2	75.2	47.9
07:00 AM - 08:00 AM	53.7	67.6	50.9
08:00 AM - 09:00 AM	56.4	86.1	52.7
09:00 AM - 10:00 AM	55.9	79.5	52.5
10:00 AM - 11:00 AM	54.5	78.3	50.4
Leq Average 24 hrs. (dB(A))	53.7		
Lmax (dB(A))		86.1	
L90 (dB(A))			49.2
Ldn (dB(A))	58.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Air Noise.rpt (11:05AM)

7497-S1/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432565
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964976-1

Page 1 of 1

Sample Number 2432565-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านนาตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.3	73.5	49.9
12:00 PM - 01:00 PM	53.5	85.0	48.2
01:00 PM - 02:00 PM	53.2	72.0	49.3
02:00 PM - 03:00 PM	53.4	71.4	48.7
03:00 PM - 04:00 PM	53.4	73.4	48.6
04:00 PM - 05:00 PM	53.4	72.4	49.3
05:00 PM - 06:00 PM	55.0	75.5	51.4
06:00 PM - 07:00 PM	56.6	78.8	52.2
07:00 PM - 08:00 PM	56.1	78.7	51.0
08:00 PM - 09:00 PM	54.8	74.3	49.9
09:00 PM - 10:00 PM	54.4	74.6	49.8
10:00 PM - 11:00 PM	53.8	72.4	50.6
11:00 PM - 12:00 AM	52.7	71.3	50.4
12:00 AM - 01:00 AM	52.2	72.0	50.2
01:00 AM - 02:00 AM	52.6	69.8	51.0
02:00 AM - 03:00 AM	52.3	67.0	50.9
03:00 AM - 04:00 AM	52.9	73.3	50.6
04:00 AM - 05:00 AM	50.5	60.1	49.1
05:00 AM - 06:00 AM	50.5	66.6	48.2
06:00 AM - 07:00 AM	51.0	70.1	48.7
07:00 AM - 08:00 AM	54.9	69.3	52.9
08:00 AM - 09:00 AM	56.2	72.5	53.9
09:00 AM - 10:00 AM	56.9	75.0	53.6
10:00 AM - 11:00 AM	53.4	80.1	49.3
Leq Average 24 hrs. (dB(A))	54.0		
Lmax (dB(A))		85.0	
L90 (dB(A))			49.9
Ldn (dB(A))	59.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Air Noise.rpt (11:05AM)

7497-S1/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432565

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964977-1

Page 1 of 1

Sample Number : 2432565-3
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณท่าขนทราย (GPS 47P 0734560, 1408527)
Measurement Date : Apr 04 - Apr 05, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.8	74.2	51.2
12:00 PM - 01:00 PM	57.3	76.8	52.8
01:00 PM - 02:00 PM	55.0	79.7	50.8
02:00 PM - 03:00 PM	53.9	77.9	50.1
03:00 PM - 04:00 PM	54.6	77.3	50.3
04:00 PM - 05:00 PM	54.7	73.2	51.4
05:00 PM - 06:00 PM	56.3	80.0	52.2
06:00 PM - 07:00 PM	56.4	76.3	51.8
07:00 PM - 08:00 PM	55.7	75.3	51.9
08:00 PM - 09:00 PM	57.6	80.3	50.8
09:00 PM - 10:00 PM	55.2	71.3	49.6
10:00 PM - 11:00 PM	55.3	71.8	49.6
11:00 PM - 12:00 AM	52.6	74.9	48.9
12:00 AM - 01:00 AM	51.4	73.1	48.6
01:00 AM - 02:00 AM	50.6	70.2	48.2
02:00 AM - 03:00 AM	50.7	65.5	48.0
03:00 AM - 04:00 AM	50.9	74.0	47.7
04:00 AM - 05:00 AM	50.4	65.3	47.3
05:00 AM - 06:00 AM	51.9	73.0	48.1
06:00 AM - 07:00 AM	53.9	72.4	50.5
07:00 AM - 08:00 AM	56.4	75.7	51.6
08:00 AM - 09:00 AM	56.6	73.3	52.3
09:00 AM - 10:00 AM	57.0	73.6	52.0
10:00 AM - 11:00 AM	56.8	75.7	49.7

Leq Average 24 hrs. (dB(A)) : 55.0
Lmax (dB(A)) : 80.3
L90 (dB(A)) : 50.3
Ldn (dB(A)) : 59.5
Standard (dB(A)) : 70
115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise.rpt (11:05AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432565

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964978-1

Page 1 of 1

Sample Number : 2432565-4
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณท่าขนทราย (GPS 47P 0734560, 1408527)
Measurement Date : Apr 05 - Apr 06, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.9	73.2	54.1
12:00 PM - 01:00 PM	55.1	76.8	50.5
01:00 PM - 02:00 PM	52.9	71.8	50.1
02:00 PM - 03:00 PM	54.0	74.0	49.9
03:00 PM - 04:00 PM	54.4	74.7	50.5
04:00 PM - 05:00 PM	55.8	72.4	51.9
05:00 PM - 06:00 PM	55.4	83.8	50.9
06:00 PM - 07:00 PM	55.3	77.6	50.9
07:00 PM - 08:00 PM	54.6	74.5	50.7
08:00 PM - 09:00 PM	54.8	72.8	50.1
09:00 PM - 10:00 PM	53.4	77.6	49.0
10:00 PM - 11:00 PM	52.8	73.0	49.8
11:00 PM - 12:00 AM	52.2	71.9	49.1
12:00 AM - 01:00 AM	52.3	78.3	48.9
01:00 AM - 02:00 AM	50.2	68.0	48.1
02:00 AM - 03:00 AM	50.2	74.0	47.8
03:00 AM - 04:00 AM	49.5	69.9	47.1
04:00 AM - 05:00 AM	51.4	72.4	47.6
05:00 AM - 06:00 AM	53.2	71.2	49.4
06:00 AM - 07:00 AM	55.3	73.2	51.5
07:00 AM - 08:00 AM	54.4	75.0	50.4
08:00 AM - 09:00 AM	53.9	77.1	49.8
09:00 AM - 10:00 AM	54.2	78.5	50.8
10:00 AM - 11:00 AM	53.1	71.9	49.0

Leq Average 24 hrs. (dB(A)) : 54.0
Lmax (dB(A)) : 83.8
L90 (dB(A)) : 49.9
Ldn (dB(A)) : 59.1
Standard (dB(A)) : 70
115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

7497-51/ EMAIL

S:\Reports_Air Noise.rpt (11:05AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432565

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964979-1

Page 1 of 1

Sample Number 2432565-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 06 - Apr 07, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	55.2	81.7	50.9
12:00 PM - 01:00 PM	54.3	74.2	50.8
01:00 PM - 02:00 PM	54.8	75.0	51.0
02:00 PM - 03:00 PM	55.5	88.9	50.9
03:00 PM - 04:00 PM	56.3	82.3	51.5
04:00 PM - 05:00 PM	55.1	79.5	50.6
05:00 PM - 06:00 PM	57.1	94.5	51.7
06:00 PM - 07:00 PM	56.4	78.1	51.9
07:00 PM - 08:00 PM	55.6	87.4	51.7
08:00 PM - 09:00 PM	55.0	75.2	51.7
09:00 PM - 10:00 PM	53.4	72.4	50.3
10:00 PM - 11:00 PM	53.3	71.5	49.9
11:00 PM - 12:00 AM	54.2	82.9	50.1
12:00 AM - 01:00 AM	53.5	79.4	49.1
01:00 AM - 02:00 AM	51.6	72.4	48.5
02:00 AM - 03:00 AM	51.5	72.0	48.7
03:00 AM - 04:00 AM	50.6	66.2	48.4
04:00 AM - 05:00 AM	50.3	69.6	47.8
05:00 AM - 06:00 AM	51.2	72.3	47.7
06:00 AM - 07:00 AM	53.1	74.9	49.4
07:00 AM - 08:00 AM	53.8	72.6	50.0
08:00 AM - 09:00 AM	55.7	76.8	50.5
09:00 AM - 10:00 AM	55.4	75.2	50.4
10:00 AM - 11:00 AM	53.9	75.4	49.9

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 94.5
L90 (dB(A)) 50.3
Ldn (dB(A)) 59.3
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP THAILAND CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports\Air Noise.rpt (11:05AM)

F497-S1/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432565

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964980-1

Page 1 of 1

Sample Number 2432565-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณบ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 07 - Apr 08, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	54.3	83.7	49.8
12:00 PM - 01:00 PM	55.6	82.7	49.1
01:00 PM - 02:00 PM	53.8	79.0	49.2
02:00 PM - 03:00 PM	55.7	88.5	49.1
03:00 PM - 04:00 PM	56.1	82.6	49.1
04:00 PM - 05:00 PM	55.2	93.5	49.3
05:00 PM - 06:00 PM	54.5	84.2	49.2
06:00 PM - 07:00 PM	55.8	88.1	50.5
07:00 PM - 08:00 PM	55.8	74.1	51.1
08:00 PM - 09:00 PM	55.8	87.1	51.7
09:00 PM - 10:00 PM	54.5	69.9	51.0
10:00 PM - 11:00 PM	53.4	73.5	49.7
11:00 PM - 12:00 AM	53.3	76.9	49.1
12:00 AM - 01:00 AM	51.6	72.3	49.0
01:00 AM - 02:00 AM	51.3	68.3	48.8
02:00 AM - 03:00 AM	51.4	73.4	48.6
03:00 AM - 04:00 AM	49.9	69.0	47.4
04:00 AM - 05:00 AM	49.0	67.9	47.2
05:00 AM - 06:00 AM	49.0	72.7	46.6
06:00 AM - 07:00 AM	49.9	66.6	46.4
07:00 AM - 08:00 AM	53.1	75.3	49.3
08:00 AM - 09:00 AM	55.1	78.7	50.4
09:00 AM - 10:00 AM	55.5	76.2	50.5
10:00 AM - 11:00 AM	54.5	76.4	50.1

Leq Average 24 hrs. (dB(A)) 54.0
Lmax (dB(A)) 93.5
L90 (dB(A)) 49.2
Ldn (dB(A)) 58.5
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsurwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP THAILAND CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports\Air Noise.rpt (11:06AM)

F497-S1/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432565

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964981-1

Page 1 of 1

Sample Number 2432565-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณท่าเทียบเรือ (GPS 47P 0734560, 1408527)
Measurement Date Apr 08 - Apr 09, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764923

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.2	79.0	50.7
12:00 PM - 01:00 PM	53.9	84.2	49.8
01:00 PM - 02:00 PM	53.6	79.8	49.7
02:00 PM - 03:00 PM	54.3	71.9	50.2
03:00 PM - 04:00 PM	53.3	82.0	49.1
04:00 PM - 05:00 PM	53.3	77.2	49.4
05:00 PM - 06:00 PM	56.2	77.5	51.3
06:00 PM - 07:00 PM	55.2	74.1	51.3
07:00 PM - 08:00 PM	55.7	73.6	52.0
08:00 PM - 09:00 PM	53.6	71.3	50.4
09:00 PM - 10:00 PM	52.9	72.2	49.4
10:00 PM - 11:00 PM	52.2	70.3	49.7
11:00 PM - 12:00 AM	52.2	69.2	49.3
12:00 AM - 01:00 AM	50.8	67.8	48.4
01:00 AM - 02:00 AM	50.3	73.2	47.7
02:00 AM - 03:00 AM	48.9	58.7	47.3
03:00 AM - 04:00 AM	49.3	63.9	47.2
04:00 AM - 05:00 AM	48.4	64.8	46.1
05:00 AM - 06:00 AM	50.9	66.3	47.1
06:00 AM - 07:00 AM	53.5	74.1	50.4
07:00 AM - 08:00 AM	55.4	69.1	52.3
08:00 AM - 09:00 AM	56.4	77.7	51.4
09:00 AM - 10:00 AM	53.7	73.6	48.5
10:00 AM - 11:00 AM	53.4	73.2	48.8
Leq Average 24 hrs. (dB(A))	53.6		
Lmax (dB(A))		84.2	
L90 (dB(A))			49.4
Ldn (dB(A))	58.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamtah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Pluakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise.rpt (11:06AM)

7497-51 EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964161-1

Page 1 of 1

Sample Number 2432566-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณโรงการด้านฟิสิกส์ (GPS 47P 04735368, 1410489)
Measurement Date Apr 02 - Apr 03, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.3	83.7	65.4
01:00 PM - 02:00 PM	66.1	78.0	65.5
02:00 PM - 03:00 PM	66.5	85.1	65.5
03:00 PM - 04:00 PM	66.0	80.0	65.4
04:00 PM - 05:00 PM	65.8	73.6	65.1
05:00 PM - 06:00 PM	66.1	73.5	65.3
06:00 PM - 07:00 PM	66.0	75.5	65.4
07:00 PM - 08:00 PM	66.0	79.4	65.1
08:00 PM - 09:00 PM	65.2	70.3	64.7
09:00 PM - 10:00 PM	65.5	87.0	64.9
10:00 PM - 11:00 PM	65.4	72.6	64.9
11:00 PM - 12:00 AM	65.2	69.7	64.7
12:00 AM - 01:00 AM	65.4	68.0	65.0
01:00 AM - 02:00 AM	66.0	68.9	65.6
02:00 AM - 03:00 AM	66.0	68.8	65.6
03:00 AM - 04:00 AM	66.1	68.4	65.7
04:00 AM - 05:00 AM	65.8	73.8	65.4
05:00 AM - 06:00 AM	65.8	70.3	65.4
06:00 AM - 07:00 AM	65.9	75.4	65.3
07:00 AM - 08:00 AM	66.1	78.8	64.9
08:00 AM - 09:00 AM	65.5	86.2	64.6
09:00 AM - 10:00 AM	66.0	80.6	64.8
10:00 AM - 11:00 AM	65.5	77.2	64.8
11:00 AM - 12:00 PM	65.6	77.2	64.9
Leq Average 24 hrs. (dB(A))	65.8		
Lmax (dB(A))		87.0	
L90 (dB(A))			65.1
Ldn (dB(A))	72.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamtah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Pluakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

7497-51 EMAIL

S:\Reports_Air Noise.rpt (11:08AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964162-1

Page 1 of 1

Sample Number 2432566-2
Parameter Noise (Leq 24 hrs.)
Location ครัวโรงการผ่านฟีดเพนนิ (GPS 47P 04735368, 1410489)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.7	75.0	64.9
01:00 PM - 02:00 PM	65.5	76.4	64.8
02:00 PM - 03:00 PM	65.8	77.5	65.1
03:00 PM - 04:00 PM	65.4	76.9	64.5
04:00 PM - 05:00 PM	65.8	76.8	65.0
05:00 PM - 06:00 PM	65.9	73.6	65.1
06:00 PM - 07:00 PM	66.1	77.3	65.4
07:00 PM - 08:00 PM	65.9	74.5	65.3
08:00 PM - 09:00 PM	65.3	72.0	64.8
09:00 PM - 10:00 PM	65.8	88.6	65.2
10:00 PM - 11:00 PM	65.4	75.8	64.9
11:00 PM - 12:00 AM	65.4	68.7	65.0
12:00 AM - 01:00 AM	65.4	69.0	65.0
01:00 AM - 02:00 AM	65.5	69.6	65.0
02:00 AM - 03:00 AM	65.5	68.7	65.1
03:00 AM - 04:00 AM	65.5	68.4	65.1
04:00 AM - 05:00 AM	65.6	69.5	65.1
05:00 AM - 06:00 AM	65.6	73.6	65.0
06:00 AM - 07:00 AM	66.2	76.3	65.1
07:00 AM - 08:00 AM	66.0	76.2	65.1
08:00 AM - 09:00 AM	65.5	77.2	64.6
09:00 AM - 10:00 AM	65.4	80.4	64.6
10:00 AM - 11:00 AM	65.4	85.9	64.6
11:00 AM - 12:00 PM	65.5	85.9	64.7

Leq Average 24 hrs. (dB(A)) 65.6
Lmax (dB(A)) 88.6
L90 (dB(A)) 65.0
Ldn (dB(A)) 72.0
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เฝ้าระวังจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsriwong
Scientist (4)

Approved by

Supt S.

Supt Salameh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Report\Air Noise rpt (11:09AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964163-1

Page 1 of 1

Sample Number 2432566-3
Parameter Noise (Leq 24 hrs.)
Location ครัวโรงการผ่านฟีดเพนนิ (GPS 47P 04735368, 1410489)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.1	80.3	64.4
01:00 PM - 02:00 PM	65.7	88.0	64.7
02:00 PM - 03:00 PM	66.0	84.2	64.7
03:00 PM - 04:00 PM	65.8	84.4	65.2
04:00 PM - 05:00 PM	66.0	77.1	65.2
05:00 PM - 06:00 PM	65.7	75.4	65.0
06:00 PM - 07:00 PM	65.3	76.4	64.6
07:00 PM - 08:00 PM	65.3	81.8	64.5
08:00 PM - 09:00 PM	64.9	74.0	64.4
09:00 PM - 10:00 PM	65.0	72.3	64.5
10:00 PM - 11:00 PM	65.0	67.5	64.6
11:00 PM - 12:00 AM	64.9	67.5	64.5
12:00 AM - 01:00 AM	64.9	67.9	64.5
01:00 AM - 02:00 AM	65.5	86.8	65.0
02:00 AM - 03:00 AM	65.3	69.3	64.9
03:00 AM - 04:00 AM	65.2	68.2	64.8
04:00 AM - 05:00 AM	65.2	67.8	64.9
05:00 AM - 06:00 AM	65.4	70.3	65.0
06:00 AM - 07:00 AM	65.9	78.5	65.2
07:00 AM - 08:00 AM	66.1	75.2	65.1
08:00 AM - 09:00 AM	65.2	75.2	64.5
09:00 AM - 10:00 AM	65.4	84.7	64.4
10:00 AM - 11:00 AM	65.3	79.1	64.4
11:00 AM - 12:00 PM	65.1	77.3	64.4

Leq Average 24 hrs. (dB(A)) 65.4
Lmax (dB(A)) 88.0
L90 (dB(A)) 64.6
Ldn (dB(A)) 71.7
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่เฝ้าระวังจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsriwong
Scientist (4)

Approved by

Supt S.

Supt Salameh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Report\Air Noise rpt (11:09AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964164-1

Page 1 of 1

Sample Number 2432566-4
Parameter Noise (Leq 24 hrs.)
Location ครัวโรงการด้านฟีดเพด (GPS 47P 04735368, 1410489)
Measurement Date Apr 05 - Apr 06, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.1	83.8	64.3
01:00 PM - 02:00 PM	65.2	79.3	64.4
02:00 PM - 03:00 PM	64.9	75.9	64.2
03:00 PM - 04:00 PM	65.2	86.6	64.5
04:00 PM - 05:00 PM	65.4	76.8	64.6
05:00 PM - 06:00 PM	66.1	77.3	65.5
06:00 PM - 07:00 PM	66.3	76.0	65.7
07:00 PM - 08:00 PM	66.0	73.7	65.5
08:00 PM - 09:00 PM	65.3	70.2	64.9
09:00 PM - 10:00 PM	64.8	69.3	64.4
10:00 PM - 11:00 PM	64.8	68.4	64.4
11:00 PM - 12:00 AM	64.8	71.1	64.4
12:00 AM - 01:00 AM	64.8	69.2	64.4
01:00 AM - 02:00 AM	64.9	77.0	64.4
02:00 AM - 03:00 AM	65.2	70.4	64.7
03:00 AM - 04:00 AM	65.3	69.1	65.0
04:00 AM - 05:00 AM	64.9	69.6	64.5
05:00 AM - 06:00 AM	65.6	86.6	65.1
06:00 AM - 07:00 AM	65.8	77.7	65.0
07:00 AM - 08:00 AM	65.8	80.5	64.9
08:00 AM - 09:00 AM	65.8	85.3	64.8
09:00 AM - 10:00 AM	65.4	72.6	64.9
10:00 AM - 11:00 AM	65.1	72.5	64.6
11:00 AM - 12:00 PM	65.3	73.8	64.7

Leq Average 24 hrs. (dB(A))

65.3

Lmax (dB(A))

86.6

L90 (dB(A))

64.6

Ldn (dB(A))

71.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่บิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports\Air Noise rpt (11 09AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964165-1

Page 1 of 1

Sample Number 2432566-5
Parameter Noise (Leq 24 hrs.)
Location ครัวโรงการด้านฟีดเพด (GPS 47P 04735368, 1410489)
Measurement Date Apr 06 - Apr 07, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.4	83.3	64.8
01:00 PM - 02:00 PM	65.1	73.4	64.5
02:00 PM - 03:00 PM	65.4	82.2	64.8
03:00 PM - 04:00 PM	66.1	79.0	65.5
04:00 PM - 05:00 PM	65.9	77.6	65.2
05:00 PM - 06:00 PM	65.7	71.4	65.1
06:00 PM - 07:00 PM	65.2	72.7	64.7
07:00 PM - 08:00 PM	65.4	75.6	64.7
08:00 PM - 09:00 PM	65.5	74.2	65.1
09:00 PM - 10:00 PM	65.7	69.6	65.3
10:00 PM - 11:00 PM	65.5	86.2	65.0
11:00 PM - 12:00 AM	65.0	67.5	64.6
12:00 AM - 01:00 AM	65.0	68.1	64.5
01:00 AM - 02:00 AM	65.9	68.1	65.6
02:00 AM - 03:00 AM	65.9	68.3	65.5
03:00 AM - 04:00 AM	65.9	68.2	65.6
04:00 AM - 05:00 AM	66.0	68.8	65.7
05:00 AM - 06:00 AM	65.8	72.4	65.3
06:00 AM - 07:00 AM	65.9	74.2	65.3
07:00 AM - 08:00 AM	66.1	77.6	65.3
08:00 AM - 09:00 AM	65.8	83.4	65.1
09:00 AM - 10:00 AM	65.7	75.4	65.2
10:00 AM - 11:00 AM	65.7	73.3	65.1
11:00 AM - 12:00 PM	65.7	71.6	65.3

Leq Average 24 hrs. (dB(A))

65.6

Lmax (dB(A))

86.2

L90 (dB(A))

65.1

Ldn (dB(A))

72.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่บิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Noise rpt (11 09AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964166-1

Page 1 of 1

Sample Number : 2432566-6
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านฟีดเพด (GPS 47P 04735368, 1410489)
Measurement Date : Apr 07 - Apr 08, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.6	71.5	65.1
01:00 PM - 02:00 PM	65.5	71.4	65.0
02:00 PM - 03:00 PM	65.1	86.8	64.5
03:00 PM - 04:00 PM	65.0	70.3	64.5
04:00 PM - 05:00 PM	64.9	70.1	64.3
05:00 PM - 06:00 PM	65.5	84.5	64.6
06:00 PM - 07:00 PM	65.5	74.3	64.9
07:00 PM - 08:00 PM	66.1	75.6	65.5
08:00 PM - 09:00 PM	66.1	80.0	65.4
09:00 PM - 10:00 PM	65.7	70.9	65.4
10:00 PM - 11:00 PM	65.5	68.3	65.1
11:00 PM - 12:00 AM	65.5	87.1	64.9
12:00 AM - 01:00 AM	65.0	69.4	64.6
01:00 AM - 02:00 AM	65.2	68.3	64.8
02:00 AM - 03:00 AM	65.8	73.4	65.4
03:00 AM - 04:00 AM	65.8	67.9	65.4
04:00 AM - 05:00 AM	65.7	68.9	65.3
05:00 AM - 06:00 AM	65.4	70.4	65.0
06:00 AM - 07:00 AM	65.0	72.5	64.5
07:00 AM - 08:00 AM	65.4	78.7	64.6
08:00 AM - 09:00 AM	65.9	84.5	64.6
09:00 AM - 10:00 AM	65.5	85.6	64.3
10:00 AM - 11:00 AM	65.9	89.8	64.1
11:00 AM - 12:00 PM	65.1	81.5	64.0

Leq Average 24 hrs. (dB(A)) : 65.5
Lmax (dB(A)) : 89.8
L90 (dB(A)) : 64.8
Ldn (dB(A)) : 71.9
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ปลอดภัยจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports_Air Noise.rpt (11:09AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964167-1

Page 1 of 1

Sample Number : 2432566-7
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านฟีดเพด (GPS 47P 04735368, 1410489)
Measurement Date : Apr 08 - Apr 09, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 920831

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	65.1	78.8	64.0
01:00 PM - 02:00 PM	65.2	83.6	63.9
02:00 PM - 03:00 PM	65.1	78.6	64.0
03:00 PM - 04:00 PM	65.1	85.6	64.4
04:00 PM - 05:00 PM	65.6	86.6	64.3
05:00 PM - 06:00 PM	65.2	76.8	64.5
06:00 PM - 07:00 PM	65.1	71.8	64.6
07:00 PM - 08:00 PM	65.4	77.7	64.8
08:00 PM - 09:00 PM	65.5	70.3	65.1
09:00 PM - 10:00 PM	65.4	68.6	65.0
10:00 PM - 11:00 PM	65.5	86.8	65.0
11:00 PM - 12:00 AM	65.1	70.4	64.7
12:00 AM - 01:00 AM	65.2	67.1	64.8
01:00 AM - 02:00 AM	65.2	67.1	64.9
02:00 AM - 03:00 AM	65.5	76.0	65.1
03:00 AM - 04:00 AM	65.1	69.4	64.8
04:00 AM - 05:00 AM	64.8	68.7	64.4
05:00 AM - 06:00 AM	64.9	68.9	64.5
06:00 AM - 07:00 AM	65.4	77.8	64.7
07:00 AM - 08:00 AM	65.9	78.1	64.7
08:00 AM - 09:00 AM	65.4	86.5	64.4
09:00 AM - 10:00 AM	65.9	87.8	65.0
10:00 AM - 11:00 AM	65.7	77.8	65.2
11:00 AM - 12:00 PM	65.9	79.1	64.9

Leq Average 24 hrs. (dB(A)) : 65.4
Lmax (dB(A)) : 87.8
L90 (dB(A)) : 64.7
Ldn (dB(A)) : 71.7
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ปลอดภัยจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS

S:\Reports_Air Noise.rpt (11:10AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964168-1

Page 1 of 1

Sample Number : 2432566-8
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 02 - Apr 03, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.0	83.4	51.1
01:00 PM - 02:00 PM	58.9	86.9	56.3
02:00 PM - 03:00 PM	56.6	80.3	53.2
03:00 PM - 04:00 PM	56.7	85.0	52.7
04:00 PM - 05:00 PM	56.3	83.7	52.1
05:00 PM - 06:00 PM	54.5	77.4	51.9
06:00 PM - 07:00 PM	56.7	67.2	53.9
07:00 PM - 08:00 PM	51.9	61.0	51.4
08:00 PM - 09:00 PM	52.6	76.1	51.5
09:00 PM - 10:00 PM	56.5	69.2	56.0
10:00 PM - 11:00 PM	51.9	57.9	51.0
11:00 PM - 12:00 AM	53.4	64.4	51.9
12:00 AM - 01:00 AM	54.1	71.8	53.5
01:00 AM - 02:00 AM	51.4	66.3	51.0
02:00 AM - 03:00 AM	52.3	65.5	51.6
03:00 AM - 04:00 AM	51.4	66.9	50.9
04:00 AM - 05:00 AM	52.5	64.4	52.0
05:00 AM - 06:00 AM	55.4	77.3	51.0
06:00 AM - 07:00 AM	56.1	73.0	53.2
07:00 AM - 08:00 AM	59.4	84.2	52.3
08:00 AM - 09:00 AM	59.0	88.3	53.9
09:00 AM - 10:00 AM	58.0	78.1	54.5
10:00 AM - 11:00 AM	57.8	78.4	52.7
11:00 AM - 12:00 PM	56.2	81.5	52.6

Leq Average 24 hrs. (dB(A)) : 55.9
Lmax (dB(A)) : 88.3
L90 (dB(A)) : 52.1
Ldn (dB(A)) : 60.6
Standard (dB(A)) : 70
115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsamwong
Scientist (4)

Approved by

Supot S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pliakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT TIME

S:\Reports_Air Noise rpt (11:10AM)

7497-51J EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964169-1

Page 1 of 1

Sample Number : 2432566-9
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 03 - Apr 04, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.4	82.1	51.5
01:00 PM - 02:00 PM	54.9	85.4	52.2
02:00 PM - 03:00 PM	56.4	78.2	52.0
03:00 PM - 04:00 PM	55.3	78.0	53.2
04:00 PM - 05:00 PM	54.2	81.9	51.8
05:00 PM - 06:00 PM	54.0	74.7	51.9
06:00 PM - 07:00 PM	55.5	82.9	52.2
07:00 PM - 08:00 PM	54.3	81.7	52.9
08:00 PM - 09:00 PM	52.4	66.3	51.1
09:00 PM - 10:00 PM	51.4	60.8	51.0
10:00 PM - 11:00 PM	51.4	65.8	51.0
11:00 PM - 12:00 AM	51.5	63.6	51.1
12:00 AM - 01:00 AM	52.3	63.3	51.7
01:00 AM - 02:00 AM	59.2	68.5	58.0
02:00 AM - 03:00 AM	51.3	58.5	51.0
03:00 AM - 04:00 AM	51.2	58.6	50.8
04:00 AM - 05:00 AM	51.3	59.0	50.9
05:00 AM - 06:00 AM	52.3	66.2	50.9
06:00 AM - 07:00 AM	54.3	72.1	53.1
07:00 AM - 08:00 AM	55.1	68.8	54.1
08:00 AM - 09:00 AM	56.0	83.1	52.9
09:00 AM - 10:00 AM	57.1	80.8	55.2
10:00 AM - 11:00 AM	57.2	85.0	54.8
11:00 AM - 12:00 PM	55.1	68.6	54.0

Leq Average 24 hrs. (dB(A)) : 54.7
Lmax (dB(A)) : 85.4
L90 (dB(A)) : 51.9
Ldn (dB(A)) : 60.4
Standard (dB(A)) : 70
115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsamwong
Scientist (4)

Approved by

Supot S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pliakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PLACE RIGHT TIME

S:\Reports_Air Noise rpt (11:10AM)

7497-51J EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964170-1

Page 1 of 1

Sample Number 2432566-10
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.2	79.1	52.2
01:00 PM - 02:00 PM	55.5	86.1	52.0
02:00 PM - 03:00 PM	56.1	66.8	53.3
03:00 PM - 04:00 PM	55.1	79.3	52.5
04:00 PM - 05:00 PM	53.8	71.3	51.7
05:00 PM - 06:00 PM	53.7	70.8	52.6
06:00 PM - 07:00 PM	59.1	77.9	57.0
07:00 PM - 08:00 PM	58.8	70.5	55.8
08:00 PM - 09:00 PM	52.1	71.7	51.4
09:00 PM - 10:00 PM	51.8	64.8	51.2
10:00 PM - 11:00 PM	52.4	65.5	51.8
11:00 PM - 12:00 AM	51.8	66.8	51.3
12:00 AM - 01:00 AM	51.9	58.2	51.4
01:00 AM - 02:00 AM	51.9	59.0	51.3
02:00 AM - 03:00 AM	51.8	61.0	51.2
03:00 AM - 04:00 AM	51.6	64.3	51.1
04:00 AM - 05:00 AM	51.4	62.4	51.0
05:00 AM - 06:00 AM	54.3	86.8	51.8
06:00 AM - 07:00 AM	61.9	81.8	58.7
07:00 AM - 08:00 AM	55.5	82.4	51.7
08:00 AM - 09:00 AM	59.0	81.0	56.6
09:00 AM - 10:00 AM	58.2	79.7	52.8
10:00 AM - 11:00 AM	55.0	81.0	51.3
11:00 AM - 12:00 PM	57.7	89.4	52.2

Leq Average 24 hrs. (dB(A)) 55.9
Lmax (dB(A)) 89.4
L90 (dB(A)) 51.8
Ldn (dB(A)) 61.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kusumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS SINCE 1987

S:\Reports_Air Noise rpt (11:50AM)

2497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964171-1

Page 1 of 1

Sample Number 2432566-11
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 05 - Apr 06, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	55.7	81.7	51.7
01:00 PM - 02:00 PM	53.3	73.2	51.2
02:00 PM - 03:00 PM	60.6	86.1	56.2
03:00 PM - 04:00 PM	53.8	74.7	51.8
04:00 PM - 05:00 PM	55.6	80.8	52.3
05:00 PM - 06:00 PM	54.1	74.6	52.1
06:00 PM - 07:00 PM	61.8	72.0	59.1
07:00 PM - 08:00 PM	52.8	71.1	51.5
08:00 PM - 09:00 PM	52.1	63.5	51.4
09:00 PM - 10:00 PM	54.9	68.8	53.5
10:00 PM - 11:00 PM	53.2	59.5	52.4
11:00 PM - 12:00 AM	55.1	61.6	53.7
12:00 AM - 01:00 AM	52.5	69.8	51.7
01:00 AM - 02:00 AM	52.0	63.3	51.5
02:00 AM - 03:00 AM	51.6	65.4	51.1
03:00 AM - 04:00 AM	51.4	59.4	50.9
04:00 AM - 05:00 AM	51.2	59.7	50.7
05:00 AM - 06:00 AM	61.3	70.6	59.3
06:00 AM - 07:00 AM	54.3	74.7	52.2
07:00 AM - 08:00 AM	52.6	62.6	51.6
08:00 AM - 09:00 AM	53.6	72.7	51.6
09:00 AM - 10:00 AM	52.3	67.5	51.4
10:00 AM - 11:00 AM	54.3	86.3	51.8
11:00 AM - 12:00 PM	52.6	66.1	51.7

Leq Average 24 hrs. (dB(A)) 55.6
Lmax (dB(A)) 86.3
L90 (dB(A)) 51.7
Ldn (dB(A)) 61.6
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kusumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteah
Section Head

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS SINCE 1987

S:\Reports_Air Noise rpt (11:50AM)

2497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964172-1

Page 1 of 1

Sample Number 2432566-12
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการพัฒนาปิโตรเลียม (GPS 47P 0735702, 1409730)
Measurement Date Apr 06 - Apr 07, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	55.9	72.9	52.5
01:00 PM - 02:00 PM	53.3	64.6	51.6
02:00 PM - 03:00 PM	55.9	68.7	51.8
03:00 PM - 04:00 PM	53.2	75.2	51.6
04:00 PM - 05:00 PM	53.6	66.8	52.2
05:00 PM - 06:00 PM	53.2	60.4	52.0
06:00 PM - 07:00 PM	61.9	70.5	59.9
07:00 PM - 08:00 PM	53.1	68.8	51.8
08:00 PM - 09:00 PM	52.2	58.0	51.4
09:00 PM - 10:00 PM	51.8	60.8	51.1
10:00 PM - 11:00 PM	51.7	70.0	51.0
11:00 PM - 12:00 AM	55.6	66.8	52.4
12:00 AM - 01:00 AM	55.0	75.3	51.3
01:00 AM - 02:00 AM	52.6	69.8	51.8
02:00 AM - 03:00 AM	51.4	59.5	50.9
03:00 AM - 04:00 AM	56.9	66.2	54.7
04:00 AM - 05:00 AM	51.2	62.8	50.8
05:00 AM - 06:00 AM	60.2	72.9	58.1
06:00 AM - 07:00 AM	54.1	77.1	51.5
07:00 AM - 08:00 AM	52.9	69.7	51.5
08:00 AM - 09:00 AM	52.0	64.1	51.2
09:00 AM - 10:00 AM	57.1	79.2	51.3
10:00 AM - 11:00 AM	53.3	67.7	52.0
11:00 AM - 12:00 PM	51.9	75.3	51.1

Leq Average 24 hrs. (dB(A)) 55.2
Lmax (dB(A)) 79.2
L90 (dB(A)) 51.6
Ldn (dB(A)) 61.7
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ขีดจำกัดการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsomwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise rpt (11:11AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964173-1

Page 1 of 1

Sample Number 2432566-13
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการพัฒนาปิโตรเลียม (GPS 47P 0735702, 1409730)
Measurement Date Apr 07 - Apr 08, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.5	71.4	51.3
01:00 PM - 02:00 PM	53.9	72.8	52.9
02:00 PM - 03:00 PM	57.1	67.9	55.2
03:00 PM - 04:00 PM	57.4	68.2	53.7
04:00 PM - 05:00 PM	52.9	64.1	51.9
05:00 PM - 06:00 PM	52.4	65.7	51.6
06:00 PM - 07:00 PM	53.0	67.8	51.8
07:00 PM - 08:00 PM	60.7	70.2	58.6
08:00 PM - 09:00 PM	54.9	72.3	52.8
09:00 PM - 10:00 PM	52.7	59.3	51.3
10:00 PM - 11:00 PM	51.9	73.8	51.0
11:00 PM - 12:00 AM	52.5	74.5	50.9
12:00 AM - 01:00 AM	51.3	68.1	50.8
01:00 AM - 02:00 AM	56.3	64.0	54.6
02:00 AM - 03:00 AM	51.1	66.5	50.8
03:00 AM - 04:00 AM	51.2	66.4	50.8
04:00 AM - 05:00 AM	51.1	63.3	50.7
05:00 AM - 06:00 AM	51.2	64.4	50.6
06:00 AM - 07:00 AM	55.2	67.8	50.8
07:00 AM - 08:00 AM	54.9	73.5	52.8
08:00 AM - 09:00 AM	52.4	68.6	51.5
09:00 AM - 10:00 AM	52.4	70.8	51.3
10:00 AM - 11:00 AM	52.2	68.9	51.2
11:00 AM - 12:00 PM	54.8	63.8	52.6

Leq Average 24 hrs. (dB(A)) 54.4
Lmax (dB(A)) 74.5
L90 (dB(A)) 51.3
Ldn (dB(A)) 59.7
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ขีดจำกัดการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsomwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

S:\Reports_Air Noise rpt (11:11AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964174-1

Page 1 of 1

Sample Number : 2432566-14
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 08 - Apr 09, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 920833

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.1	65.4	51.2
01:00 PM - 02:00 PM	52.7	72.7	51.6
02:00 PM - 03:00 PM	52.5	75.2	51.3
03:00 PM - 04:00 PM	54.8	67.8	52.5
04:00 PM - 05:00 PM	53.5	74.1	52.3
05:00 PM - 06:00 PM	52.4	67.3	51.1
06:00 PM - 07:00 PM	52.6	69.0	51.4
07:00 PM - 08:00 PM	51.6	67.9	51.0
08:00 PM - 09:00 PM	51.4	65.4	50.9
09:00 PM - 10:00 PM	51.4	66.8	50.9
10:00 PM - 11:00 PM	52.5	66.2	51.8
11:00 PM - 12:00 AM	51.8	63.1	51.3
12:00 AM - 01:00 AM	51.4	60.7	51.0
01:00 AM - 02:00 AM	51.4	71.4	50.9
02:00 AM - 03:00 AM	51.5	71.6	50.9
03:00 AM - 04:00 AM	54.9	78.6	53.4
04:00 AM - 05:00 AM	56.5	86.1	55.0
05:00 AM - 06:00 AM	55.4	81.8	52.3
06:00 AM - 07:00 AM	55.7	82.7	53.1
07:00 AM - 08:00 AM	58.8	87.8	55.8
08:00 AM - 09:00 AM	59.8	86.9	57.0
09:00 AM - 10:00 AM	60.0	84.8	58.2
10:00 AM - 11:00 AM	56.1	83.6	52.7
11:00 AM - 12:00 PM	55.3	75.7	53.2

Leq Average 24 hrs. (dB(A)) : 55.0
Lmax (dB(A)) : 87.8
L90 (dB(A)) : 51.6
Ldn (dB(A)) : 60.6
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LINE SERVICES

www.alsglobal.com

RIGHT SOLUTIONS FREIGHT & AVIATION

S:\Reports_Air Noise.rpt (11:12AM)

7897-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964175-1

Page 1 of 1

Sample Number : 2432566-15
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735038, 1409712)
Measurement Date : Apr 02 - Apr 03, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.6	74.5	48.5
12:00 PM - 01:00 PM	52.0	78.4	49.0
01:00 PM - 02:00 PM	53.2	84.4	47.5
02:00 PM - 03:00 PM	51.1	77.2	47.6
03:00 PM - 04:00 PM	50.4	70.9	48.4
04:00 PM - 05:00 PM	51.3	76.2	48.5
05:00 PM - 06:00 PM	55.7	86.9	49.6
06:00 PM - 07:00 PM	54.1	79.9	49.4
07:00 PM - 08:00 PM	56.9	79.7	51.8
08:00 PM - 09:00 PM	54.5	77.2	52.3
09:00 PM - 10:00 PM	55.1	69.5	52.1
10:00 PM - 11:00 PM	52.8	70.0	51.3
11:00 PM - 12:00 AM	52.4	75.9	50.7
12:00 AM - 01:00 AM	53.0	78.1	50.5
01:00 AM - 02:00 AM	51.5	58.4	49.8
02:00 AM - 03:00 AM	50.6	61.7	49.4
03:00 AM - 04:00 AM	58.3	70.7	53.5
04:00 AM - 05:00 AM	50.0	64.8	48.9
05:00 AM - 06:00 AM	50.4	65.9	49.4
06:00 AM - 07:00 AM	52.2	76.0	50.0
07:00 AM - 08:00 AM	56.1	82.8	49.5
08:00 AM - 09:00 AM	53.9	77.9	49.1
09:00 AM - 10:00 AM	52.5	80.3	49.0
10:00 AM - 11:00 AM	51.9	76.6	48.6

Leq Average 24 hrs. (dB(A)) : 53.6
Lmax (dB(A)) : 86.9
L90 (dB(A)) : 49.4
Ldn (dB(A)) : 59.7
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LINE SERVICES

www.alsglobal.com

RIGHT SOLUTIONS FREIGHT & AVIATION

7897-51/ EMAIL

S:\Reports_Air Noise.rpt (11:13AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964176-1

Page 1 of 1

Sample Number 2432566-16
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการพัฒนาปิโตรเคมี (GPS 47P 0735038, 1409712)
Measurement Date Apr 03 - Apr 04, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	54.4	78.5	49.7
12:00 PM - 01:00 PM	54.6	80.0	50.2
01:00 PM - 02:00 PM	53.1	79.3	50.6
02:00 PM - 03:00 PM	53.5	77.3	50.7
03:00 PM - 04:00 PM	58.1	72.8	55.1
04:00 PM - 05:00 PM	58.7	81.9	57.0
05:00 PM - 06:00 PM	54.2	79.6	49.7
06:00 PM - 07:00 PM	57.3	86.1	50.4
07:00 PM - 08:00 PM	54.6	75.6	51.5
08:00 PM - 09:00 PM	56.5	75.7	53.0
09:00 PM - 10:00 PM	55.3	73.5	51.1
10:00 PM - 11:00 PM	54.6	70.3	50.9
11:00 PM - 12:00 AM	53.8	72.8	50.5
12:00 AM - 01:00 AM	52.0	79.6	49.6
01:00 AM - 02:00 AM	50.3	59.4	49.3
02:00 AM - 03:00 AM	50.5	60.5	49.5
03:00 AM - 04:00 AM	50.5	65.5	49.5
04:00 AM - 05:00 AM	50.5	61.3	49.3
05:00 AM - 06:00 AM	54.5	69.4	51.3
06:00 AM - 07:00 AM	53.3	78.8	49.9
07:00 AM - 08:00 AM	52.7	79.0	48.5
08:00 AM - 09:00 AM	52.6	77.4	48.3
09:00 AM - 10:00 AM	51.3	74.5	48.8
10:00 AM - 11:00 AM	54.1	79.0	49.1
Leq Average 24 hrs. (dB(A))	54.4		
Lmax (dB(A))		86.1	
L90 (dB(A))			49.9
Ldn (dB(A))	59.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไกลจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsunwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8553 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Noise.rpt (11.14AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964177-1

Page 1 of 1

Sample Number 2432566-17
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการพัฒนาปิโตรเคมี (GPS 47P 0735038, 1409712)
Measurement Date Apr 04 - Apr 05, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	52.3	82.1	48.0
12:00 PM - 01:00 PM	54.8	82.1	49.1
01:00 PM - 02:00 PM	55.0	82.4	48.8
02:00 PM - 03:00 PM	51.2	75.5	48.6
03:00 PM - 04:00 PM	52.3	77.6	48.6
04:00 PM - 05:00 PM	52.3	77.7	48.6
05:00 PM - 06:00 PM	57.0	85.8	49.3
06:00 PM - 07:00 PM	60.4	89.4	54.2
07:00 PM - 08:00 PM	60.1	89.4	53.4
08:00 PM - 09:00 PM	62.0	79.5	58.7
09:00 PM - 10:00 PM	62.9	71.9	58.8
10:00 PM - 11:00 PM	57.7	70.4	53.9
11:00 PM - 12:00 AM	52.0	68.0	50.8
12:00 AM - 01:00 AM	62.2	74.1	58.4
01:00 AM - 02:00 AM	51.8	55.9	50.8
02:00 AM - 03:00 AM	50.8	63.7	49.9
03:00 AM - 04:00 AM	53.6	69.4	48.9
04:00 AM - 05:00 AM	50.2	79.3	49.0
05:00 AM - 06:00 AM	53.2	84.8	49.4
06:00 AM - 07:00 AM	54.5	83.2	50.7
07:00 AM - 08:00 AM	53.6	82.6	50.0
08:00 AM - 09:00 AM	52.5	77.0	49.2
09:00 AM - 10:00 AM	50.8	71.8	49.0
10:00 AM - 11:00 AM	51.2	72.9	49.1
Leq Average 24 hrs. (dB(A))	56.8		
Lmax (dB(A))		89.4	
L90 (dB(A))			49.3
Ldn (dB(A))	62.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ไกลจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsunwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8553 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Noise.rpt (11.15AM)



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964178-1

Page 1 of 1

Sample Number : 2432566-18
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date : Apr 05 - Apr 06, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.2	78.3	48.8
12:00 PM - 01:00 PM	60.7	87.7	52.5
01:00 PM - 02:00 PM	53.1	79.1	48.1
02:00 PM - 03:00 PM	56.4	81.9	48.1
03:00 PM - 04:00 PM	61.6	75.5	53.3
04:00 PM - 05:00 PM	52.2	74.2	49.2
05:00 PM - 06:00 PM	55.0	81.0	49.4
06:00 PM - 07:00 PM	62.9	84.3	60.2
07:00 PM - 08:00 PM	55.3	83.8	51.0
08:00 PM - 09:00 PM	56.2	74.2	53.4
09:00 PM - 10:00 PM	61.4	73.9	58.3
10:00 PM - 11:00 PM	53.6	67.0	51.2
11:00 PM - 12:00 AM	51.6	76.6	50.2
12:00 AM - 01:00 AM	58.2	75.6	56.5
01:00 AM - 02:00 AM	50.8	74.2	49.6
02:00 AM - 03:00 AM	50.2	60.9	49.2
03:00 AM - 04:00 AM	49.9	59.7	48.9
04:00 AM - 05:00 AM	50.7	68.5	49.5
05:00 AM - 06:00 AM	58.3	70.9	56.3
06:00 AM - 07:00 AM	57.4	87.3	49.8
07:00 AM - 08:00 AM	53.8	78.6	49.6
08:00 AM - 09:00 AM	53.0	80.3	48.4
09:00 AM - 10:00 AM	51.8	73.8	48.4
10:00 AM - 11:00 AM	51.4	75.3	48.2

Leq Average 24 hrs. (dB(A)) : 56.8
Lmax (dB(A)) : 87.7
L90 (dB(A)) : 49.6
Ldn (dB(A)) : 61.7
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ปลอดภัยจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432566
Date Received : Apr 10, 2024
Date Reported : Apr 12, 2024
Report Number: 2964179-1

Page 1 of 1

Sample Number : 2432566-19
Parameter : Noise (Leq 24 hrs.)
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735038, 1409712)
Measurement Date : Apr 06 - Apr 07, 2024
Measurement by : Chatchai Sukpia
Sound Level meter : Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	60.0	80.6	52.2
12:00 PM - 01:00 PM	54.2	76.4	47.5
01:00 PM - 02:00 PM	54.9	75.3	48.0
02:00 PM - 03:00 PM	53.5	79.7	48.7
03:00 PM - 04:00 PM	62.3	79.7	55.7
04:00 PM - 05:00 PM	51.0	75.0	48.0
05:00 PM - 06:00 PM	53.4	79.0	48.8
06:00 PM - 07:00 PM	59.7	81.6	56.0
07:00 PM - 08:00 PM	59.0	73.8	51.4
08:00 PM - 09:00 PM	56.7	87.2	50.9
09:00 PM - 10:00 PM	58.6	68.9	55.4
10:00 PM - 11:00 PM	51.0	59.5	50.2
11:00 PM - 12:00 AM	61.9	74.0	57.5
12:00 AM - 01:00 AM	51.2	59.6	50.4
01:00 AM - 02:00 AM	50.9	57.7	50.0
02:00 AM - 03:00 AM	59.3	69.3	57.5
03:00 AM - 04:00 AM	50.7	68.4	49.8
04:00 AM - 05:00 AM	50.9	68.2	50.0
05:00 AM - 06:00 AM	60.1	75.3	57.0
06:00 AM - 07:00 AM	55.7	86.0	49.9
07:00 AM - 08:00 AM	52.5	80.6	48.7
08:00 AM - 09:00 AM	51.6	76.6	48.7
09:00 AM - 10:00 AM	51.6	74.0	48.6
10:00 AM - 11:00 AM	50.9	59.5	50.1

Leq Average 24 hrs. (dB(A)) : 56.9
Lmax (dB(A)) : 87.2
L90 (dB(A)) : 50.0
Ldn (dB(A)) : 63.3
Standard (dB(A)) : 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่ปลอดภัยจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

Technical Management

Thanitak.

Thanita Kulsumwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Solutions

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Noise.rpt (11:16AM)

7497-51/ EMAIL

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Solutions

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

S:\Reports_Air Noise.rpt (11:16AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964180-1

Page 1 of 1

Sample Number 2432566-20
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 07 - Apr 08, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.4	74.8	48.3
12:00 PM - 01:00 PM	53.0	78.7	48.1
01:00 PM - 02:00 PM	56.4	86.6	47.9
02:00 PM - 03:00 PM	52.3	80.4	47.5
03:00 PM - 04:00 PM	53.8	81.1	48.3
04:00 PM - 05:00 PM	54.5	80.0	50.5
05:00 PM - 06:00 PM	54.8	80.2	51.2
06:00 PM - 07:00 PM	52.7	78.3	48.2
07:00 PM - 08:00 PM	61.7	82.1	59.0
08:00 PM - 09:00 PM	57.5	69.5	54.5
09:00 PM - 10:00 PM	57.0	82.3	53.1
10:00 PM - 11:00 PM	52.0	59.0	51.3
11:00 PM - 12:00 AM	57.2	82.3	55.9
12:00 AM - 01:00 AM	56.0	67.5	52.7
01:00 AM - 02:00 AM	51.4	69.7	50.1
02:00 AM - 03:00 AM	57.9	83.7	53.2
03:00 AM - 04:00 AM	53.7	71.6	49.2
04:00 AM - 05:00 AM	50.1	61.8	49.1
05:00 AM - 06:00 AM	50.3	56.9	49.2
06:00 AM - 07:00 AM	51.4	71.4	49.5
07:00 AM - 08:00 AM	54.5	82.7	49.8
08:00 AM - 09:00 AM	53.5	77.4	49.8
09:00 AM - 10:00 AM	52.1	71.6	49.5
10:00 AM - 11:00 AM	51.1	73.2	48.8

Leq Average 24 hrs. (dB(A))

55.1

Lmax (dB(A))

86.6

L90 (dB(A))

49.5

Ldn (dB(A))

60.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PATTERN

S:\Reports\Air Noise rpt (11 16AM)

7497-51/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Map Ta Phut Olefins Co., Ltd.

88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21

Project Name : Environmental Monitoring

Project Location :

Lot ID: 2432566

Date Received : Apr 10, 2024

Date Reported : Apr 12, 2024

Report Number: 2964181-1

Page 1 of 1

Sample Number 2432566-21
Parameter Noise (Leq 24 hrs.)
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 08 - Apr 09, 2024
Measurement by Chatchai Sukpia
Sound Level meter Serial No. 764920

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.4	70.8	48.9
12:00 PM - 01:00 PM	50.7	74.3	47.7
01:00 PM - 02:00 PM	51.6	78.9	48.7
02:00 PM - 03:00 PM	55.1	82.2	49.7
03:00 PM - 04:00 PM	55.7	77.7	50.3
04:00 PM - 05:00 PM	53.2	82.9	49.3
05:00 PM - 06:00 PM	54.7	82.0	49.3
06:00 PM - 07:00 PM	53.5	80.5	49.8
07:00 PM - 08:00 PM	53.0	75.5	51.0
08:00 PM - 09:00 PM	53.8	72.5	51.4
09:00 PM - 10:00 PM	51.6	73.9	50.4
10:00 PM - 11:00 PM	52.5	71.5	50.9
11:00 PM - 12:00 AM	52.0	72.7	51.2
12:00 AM - 01:00 AM	51.1	57.1	50.5
01:00 AM - 02:00 AM	51.6	58.0	51.0
02:00 AM - 03:00 AM	51.1	71.7	50.2
03:00 AM - 04:00 AM	50.6	70.8	49.9
04:00 AM - 05:00 AM	50.5	54.9	49.8
05:00 AM - 06:00 AM	52.5	73.3	50.2
06:00 AM - 07:00 AM	54.1	81.0	49.9
07:00 AM - 08:00 AM	55.2	83.6	49.3
08:00 AM - 09:00 AM	52.7	78.7	49.3
09:00 AM - 10:00 AM	51.2	74.7	48.8
10:00 AM - 11:00 AM	53.4	81.1	49.2

Leq Average 24 hrs. (dB(A))

52.9

Lmax (dB(A))

83.6

L90 (dB(A))

49.8

Ldn (dB(A))

58.6

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsumwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PATTERN

7497-51/ EMAIL

S:\Reports\Air Noise rpt (11 17AM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957106-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432523-1
Parameter เสียงรบกวน
Location หมู่บ้านหนอง (บ้านพุดม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียงรบกวน

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	56.7	54.3	53.0	-	49.4	3.6
10:00 AM - 11:00 AM	55.6	54.9	47.3	-	49.8	-2.5
11:00 AM - 12:00 PM	55.1	53.9	48.9	-	48.9	0.0
12:00 PM - 01:00 PM	55.7	56.4	n/a	-	52.9	-
01:00 PM - 02:00 PM	55.7	56.2	n/a	-	52.6	-
02:00 PM - 03:00 PM	56.7	56.9	n/a	-	53.7	-
03:00 PM - 04:00 PM	55.7	56.7	n/a	-	53.5	-
04:00 PM - 05:00 PM	58.1	57.3	50.4	-	54.4	-4.0
05:00 PM - 06:00 PM	58.4	58.0	47.8	-	55.0	-7.2
06:00 PM - 07:00 PM	58.2	57.9	46.4	-	54.2	-7.8
07:00 PM - 08:00 PM	56.6	58.1	n/a	-	55.3	-
08:00 PM - 09:00 PM	56.0	56.0	n/a	-	53.6	-
09:00 PM - 10:00 PM	54.6	55.8	n/a	-	52.7	-
10:00 PM - 10:05 PM	55.7	54.0	-	53.8	51.7	2.1
10:05 PM - 10:10 PM	54.3	54.2	-	40.9	52.7	-11.8
10:10 PM - 10:15 PM	53.8	54.4	-	n/a	52.6	-
10:15 PM - 10:20 PM	53.9	54.0	-	n/a	52.1	-
10:20 PM - 10:25 PM	54.4	56.5	-	n/a	53.4	-
10:25 PM - 10:30 PM	54.1	54.6	-	n/a	52.4	-
10:30 PM - 10:35 PM	53.7	54.8	-	n/a	53.4	-
10:35 PM - 10:40 PM	53.3	54.3	-	n/a	50.6	-
10:40 PM - 10:45 PM	53.5	55.1	-	n/a	52.9	-
10:45 PM - 10:50 PM	53.7	54.7	-	n/a	51.5	-
10:50 PM - 10:55 PM	55.2	54.6	-	49.3	51.3	-2.0
10:55 PM - 11:00 PM	54.0	54.8	-	n/a	52.7	-
11:00 PM - 11:05 PM	53.9	53.7	-	43.4	51.2	-7.8
11:05 PM - 11:10 PM	54.0	54.4	-	n/a	52.8	-
11:10 PM - 11:15 PM	56.7	54.9	-	55.0	51.5	3.5
11:15 PM - 11:20 PM	53.1	54.5	-	n/a	52.9	-
11:20 PM - 11:25 PM	53.2	54.2	-	n/a	50.9	-
11:25 PM - 11:30 PM	53.4	54.5	-	n/a	51.7	-
11:30 PM - 11:35 PM	53.9	55.9	-	n/a	53.3	-
11:35 PM - 11:40 PM	52.5	53.8	-	n/a	52.1	-
11:40 PM - 11:45 PM	53.5	54.1	-	n/a	52.8	-
11:45 PM - 11:50 PM	54.5	53.9	-	48.6	51.6	-3.0
11:50 PM - 11:55 PM	52.3	54.3	-	n/a	53.0	-
11:55 PM - 12:00 AM	52.8	53.8	-	n/a	51.5	-
12:00 AM - 12:05 AM	54.4	54.5	-	n/a	52.8	-
12:05 AM - 12:10 AM	53.8	54.7	-	n/a	51.7	-
12:10 AM - 12:15 AM	56.4	53.7	-	56.1	51.0	5.1

The above results are valid only for the analyzed tested sample(s) as indicated in this report. No part of this report or data herein may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) Limited. Any unauthorized use of this report is not recognized except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pivakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957106-1

Sample No. : 2432523-1
Parameter : เสียงรบกวน
Location : หมู่บ้านพลุด (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	55.4	54.0	-	52.8	53.0	-0.2
12:20 AM - 12:25 AM	54.3	54.7	-	n/a	52.0	-
12:25 AM - 12:30 AM	53.4	55.2	-	n/a	53.4	-
12:30 AM - 12:35 AM	53.9	56.1	-	n/a	52.7	-
12:35 AM - 12:40 AM	52.0	56.1	-	n/a	53.1	-
12:40 AM - 12:45 AM	53.7	54.5	-	n/a	51.1	-
12:45 AM - 12:50 AM	53.7	54.3	-	n/a	51.2	-
12:50 AM - 12:55 AM	53.4	54.8	-	n/a	53.4	-
12:55 AM - 01:00 AM	52.4	53.9	-	n/a	51.3	-
01:00 AM - 01:05 AM	52.4	54.3	-	n/a	53.0	-
01:05 AM - 01:10 AM	53.1	54.5	-	n/a	51.2	-
01:10 AM - 01:15 AM	52.4	54.8	-	n/a	53.4	-
01:15 AM - 01:20 AM	53.6	53.8	-	n/a	50.8	-
01:20 AM - 01:25 AM	53.1	53.9	-	n/a	52.1	-
01:25 AM - 01:30 AM	52.5	54.4	-	n/a	52.6	-
01:30 AM - 01:35 AM	51.4	53.8	-	n/a	50.8	-
01:35 AM - 01:40 AM	53.9	54.7	-	n/a	53.3	-
01:40 AM - 01:45 AM	53.3	54.0	-	n/a	52.2	-
01:45 AM - 01:50 AM	52.2	54.1	-	n/a	52.9	-
01:50 AM - 01:55 AM	52.1	53.7	-	n/a	50.9	-
01:55 AM - 02:00 AM	52.6	54.3	-	n/a	52.8	-
02:00 AM - 02:05 AM	52.1	54.4	-	n/a	51.7	-
02:05 AM - 02:10 AM	52.1	54.1	-	n/a	52.2	-
02:10 AM - 02:15 AM	52.8	53.9	-	n/a	52.3	-
02:15 AM - 02:20 AM	52.2	53.6	-	n/a	51.0	-
02:20 AM - 02:25 AM	54.2	53.8	-	46.6	52.7	-6.1
02:25 AM - 02:30 AM	53.3	53.3	-	n/a	51.1	-
02:30 AM - 02:35 AM	52.2	54.9	-	n/a	52.9	-
02:35 AM - 02:40 AM	51.5	53.5	-	n/a	50.8	-
02:40 AM - 02:45 AM	52.6	53.7	-	n/a	52.9	-
02:45 AM - 02:50 AM	51.3	55.0	-	n/a	50.7	-
02:50 AM - 02:55 AM	52.4	53.8	-	n/a	52.7	-
02:55 AM - 03:00 AM	52.3	53.2	-	n/a	50.7	-
03:00 AM - 03:05 AM	52.9	54.1	-	n/a	53.0	-
03:05 AM - 03:10 AM	52.1	53.5	-	n/a	51.9	-
03:10 AM - 03:15 AM	51.8	53.9	-	n/a	52.8	-
03:15 AM - 03:20 AM	52.6	54.0	-	n/a	51.0	-
03:20 AM - 03:25 AM	52.1	54.2	-	n/a	52.9	-
03:25 AM - 03:30 AM	52.5	53.5	-	n/a	50.6	-
03:30 AM - 03:35 AM	52.0	54.0	-	n/a	53.2	-

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957106-1

Sample No. : 2432523-1
Parameter : เสียงรบกวน
Location : หมู่บ้านพลุด (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	52.3	53.8	-	n/a	51.2	-
03:40 AM - 03:45 AM	51.7	53.8	-	n/a	51.5	-
03:45 AM - 03:50 AM	52.7	53.9	-	n/a	52.4	-
03:50 AM - 03:55 AM	51.8	53.7	-	n/a	51.1	-
03:55 AM - 04:00 AM	53.1	53.9	-	n/a	52.9	-
04:00 AM - 04:05 AM	52.4	53.7	-	n/a	51.1	-
04:05 AM - 04:10 AM	53.2	54.2	-	n/a	52.5	-
04:10 AM - 04:15 AM	52.2	53.4	-	n/a	50.7	-
04:15 AM - 04:20 AM	53.4	54.3	-	n/a	53.1	-
04:20 AM - 04:25 AM	52.0	53.7	-	n/a	51.5	-
04:25 AM - 04:30 AM	54.7	54.4	-	45.9	52.9	-7.0
04:30 AM - 04:35 AM	54.1	53.4	-	48.8	51.0	-2.2
04:35 AM - 04:40 AM	52.6	54.3	-	n/a	52.9	-
04:40 AM - 04:45 AM	55.3	53.5	-	53.6	51.1	2.5
04:45 AM - 04:50 AM	52.7	54.8	-	n/a	52.9	-
04:50 AM - 04:55 AM	54.0	54.3	-	n/a	51.2	-
04:55 AM - 05:00 AM	54.4	54.0	-	46.8	52.9	-6.1
05:00 AM - 05:05 AM	54.1	54.9	-	n/a	51.4	-
05:05 AM - 05:10 AM	53.3	54.2	-	n/a	52.9	-
05:10 AM - 05:15 AM	54.4	53.8	-	48.5	51.6	-3.1
05:15 AM - 05:20 AM	55.4	55.0	-	47.8	52.7	-4.9
05:20 AM - 05:25 AM	53.5	54.4	-	n/a	52.0	-
05:25 AM - 05:30 AM	54.8	54.3	-	48.2	52.7	-4.5
05:30 AM - 05:35 AM	56.9	54.4	-	56.3	52.5	3.8
05:35 AM - 05:40 AM	53.8	55.1	-	n/a	51.3	-
05:40 AM - 05:45 AM	55.0	54.4	-	49.1	52.9	-3.8
05:45 AM - 05:50 AM	57.6	55.9	-	55.7	53.4	2.3
05:50 AM - 05:55 AM	61.1	61.5	-	n/a	53.2	-
05:55 AM - 06:00 AM	57.4	54.6	-	57.2	52.8	4.4
06:00 AM - 07:00 AM	57.2	55.6	52.1	-	52.4	-0.3
07:00 AM - 08:00 AM	57.2	57.9	53.3	-	55.0	-1.7
08:00 AM - 09:00 AM	58.7	57.7	51.8	-	54.8	-3.0

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานแหล่งเสียงทางเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ห้าการตรวจวัด วันที่ 02-03 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432537-1 วันที่ตรวจวัด 02-03 เมษายน 2567)
- น/ก: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

Approved by

WibB.
Wiwann Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Approved by

WibB.
Wiwann Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957107-1

Sample No. 2432523-2
Parameter เสียงรบกวน
Location หมู่บ้านพหลุ (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	55.5	55.6	n/a	-	52.5	-
10:00 AM - 11:00 AM	56.0	58.8	n/a	-	52.7	-
11:00 AM - 12:00 PM	56.2	55.8	45.6	-	52.9	-7.3
12:00 PM - 01:00 PM	56.1	55.5	47.2	-	52.4	-5.2
01:00 PM - 02:00 PM	56.7	55.4	50.8	-	52.3	-1.5
02:00 PM - 03:00 PM	57.0	55.9	50.5	-	53.1	-2.6
03:00 PM - 04:00 PM	58.8	60.4	n/a	-	58.5	-
04:00 PM - 05:00 PM	57.3	55.3	53.0	-	51.9	1.1
05:00 PM - 06:00 PM	55.9	54.1	51.2	-	51.4	-0.2
06:00 PM - 07:00 PM	55.5	54.4	49.0	-	51.4	-2.4
07:00 PM - 08:00 PM	54.4	53.3	47.9	-	51.3	-3.4
08:00 PM - 09:00 PM	54.5	54.0	44.9	-	51.5	-6.6
09:00 PM - 10:00 PM	54.1	53.2	46.8	-	51.6	-4.8
10:00 PM - 10:05 PM	53.9	52.8	-	50.4	51.7	-1.3
10:05 PM - 10:10 PM	53.7	52.5	-	50.5	51.3	-0.8
10:10 PM - 10:15 PM	53.4	53.0	-	45.8	51.5	-5.7
10:15 PM - 10:20 PM	53.3	52.2	-	49.8	51.0	-1.2
10:20 PM - 10:25 PM	53.2	52.6	-	47.3	51.3	-4.0
10:25 PM - 10:30 PM	53.5	53.3	-	43.0	51.3	-8.3
10:30 PM - 10:35 PM	54.7	52.0	-	54.4	51.0	3.4
10:35 PM - 10:40 PM	52.9	52.5	-	45.3	51.3	-6.0
10:40 PM - 10:45 PM	52.7	51.8	-	48.4	50.9	-2.5
10:45 PM - 10:50 PM	52.2	51.8	-	44.6	50.9	-6.3
10:50 PM - 10:55 PM	52.6	52.1	-	46.0	50.8	-4.8
10:55 PM - 11:00 PM	53.0	52.4	-	47.1	50.9	-3.8
11:00 PM - 11:05 PM	52.5	52.4	-	39.1	50.8	-11.7
11:05 PM - 11:10 PM	51.3	52.0	-	n/a	50.9	-
11:10 PM - 11:15 PM	52.9	52.5	-	45.3	51.0	-
11:15 PM - 11:20 PM	52.8	52.0	-	48.1	51.0	-2.9
11:20 PM - 11:25 PM	53.5	51.8	-	51.6	50.8	0.8
11:25 PM - 11:30 PM	52.2	51.9	-	43.4	51.0	-7.6
11:30 PM - 11:35 PM	53.0	53.2	-	n/a	51.0	-
11:35 PM - 11:40 PM	53.9	52.2	-	52.0	51.0	1.0
11:40 PM - 11:45 PM	52.5	51.8	-	47.2	50.7	-3.5
11:45 PM - 11:50 PM	52.3	51.8	-	45.7	50.5	-4.8
11:50 PM - 11:55 PM	53.0	52.0	-	49.1	50.7	-1.6
11:55 PM - 12:00 AM	52.7	52.2	-	46.1	50.6	-4.5
12:00 AM - 12:05 AM	53.3	51.8	-	51.0	50.4	0.6
12:05 AM - 12:10 AM	53.2	51.5	-	51.3	50.5	0.8
12:10 AM - 12:15 AM	51.7	51.7	-	n/a	50.6	-

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957107-1

Sample No. 2432523-2
Parameter เสียงรบกวน
Location หมู่บ้านพหลุ (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	52.4	52.9	-	n/a	51.4	-
12:20 AM - 12:25 AM	53.2	51.9	-	50.3	50.8	-0.5
12:25 AM - 12:30 AM	52.6	51.9	-	47.3	50.6	-3.3
12:30 AM - 12:35 AM	52.8	51.5	-	49.9	50.7	-0.8
12:35 AM - 12:40 AM	53.3	52.9	-	45.7	51.2	-5.5
12:40 AM - 12:45 AM	52.9	51.9	-	49.0	50.8	-1.8
12:45 AM - 12:50 AM	53.0	52.4	-	47.1	51.0	-3.9
12:50 AM - 12:55 AM	52.5	52.2	-	43.7	51.1	-7.4
12:55 AM - 01:00 AM	52.8	52.2	-	46.9	51.0	-4.1
01:00 AM - 01:05 AM	53.1	51.7	-	50.5	50.7	-0.2
01:05 AM - 01:10 AM	52.6	52.5	-	39.2	51.1	-11.9
01:10 AM - 01:15 AM	54.2	52.7	-	51.9	51.2	0.7
01:15 AM - 01:20 AM	53.0	52.5	-	46.4	51.3	-4.9
01:20 AM - 01:25 AM	53.2	52.1	-	49.7	50.8	-1.1
01:25 AM - 01:30 AM	52.7	54.3	-	n/a	51.3	-
01:30 AM - 01:35 AM	55.5	52.9	-	55.0	51.3	3.7
01:35 AM - 01:40 AM	53.4	52.1	-	50.5	50.8	-0.3
01:40 AM - 01:45 AM	53.5	52.9	-	47.6	51.1	-3.5
01:45 AM - 01:50 AM	53.9	52.3	-	51.8	50.9	0.9
01:50 AM - 01:55 AM	52.8	52.0	-	48.1	50.6	-2.5
01:55 AM - 02:00 AM	53.3	52.2	-	49.8	51.0	-1.2
02:00 AM - 02:05 AM	53.7	53.0	-	48.4	51.4	-3.0
02:05 AM - 02:10 AM	54.8	53.9	-	50.5	51.3	-0.8
02:10 AM - 02:15 AM	60.0	57.3	-	59.7	51.3	8.4
02:15 AM - 02:20 AM	54.5	54.1	-	46.9	51.0	-4.1
02:20 AM - 02:25 AM	55.8	54.3	-	53.5	51.6	1.9
02:25 AM - 02:30 AM	53.7	53.8	-	n/a	51.5	-
02:30 AM - 02:35 AM	54.7	53.2	-	52.4	51.0	1.4
02:35 AM - 02:40 AM	54.6	53.6	-	50.7	51.8	-1.1
02:40 AM - 02:45 AM	54.5	54.3	-	44.0	52.4	-8.4
02:45 AM - 02:50 AM	54.3	54.0	-	45.5	51.6	-6.1
02:50 AM - 02:55 AM	54.1	53.8	-	45.3	51.9	-6.6
02:55 AM - 03:00 AM	55.2	59.6	-	n/a	52.9	-
03:00 AM - 03:05 AM	59.1	65.3	-	n/a	63.0	-
03:05 AM - 03:10 AM	62.8	59.3	-	63.2	55.5	7.7
03:10 AM - 03:15 AM	57.0	57.3	-	n/a	53.9	-
03:15 AM - 03:20 AM	59.1	55.8	-	59.4	53.1	6.3
03:20 AM - 03:25 AM	56.3	56.8	-	n/a	52.5	-
03:25 AM - 03:30 AM	58.2	55.2	-	58.2	53.0	5.2
03:30 AM - 03:35 AM	56.5	60.8	-	n/a	53.5	-

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957107-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432523-2
Parameter เสียงรบกวน
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	58.0	55.0	-	58.0	52.4	5.6
03:40 AM - 03:45 AM	57.3	56.2	-	53.8	52.7	1.1
03:45 AM - 03:50 AM	57.1	55.9	-	53.9	53.0	0.9
03:50 AM - 03:55 AM	57.2	56.3	-	52.9	53.4	-0.5
03:55 AM - 04:00 AM	56.8	56.7	-	43.4	53.4	-10.0
04:00 AM - 04:05 AM	59.5	57.7	-	57.8	53.4	4.4
04:05 AM - 04:10 AM	59.5	56.6	-	59.4	54.2	5.2
04:10 AM - 04:15 AM	58.0	56.4	-	55.9	54.3	1.6
04:15 AM - 04:20 AM	58.2	56.9	-	55.3	53.8	1.5
04:20 AM - 04:25 AM	59.3	57.1	-	58.3	54.9	3.4
04:25 AM - 04:30 AM	58.7	57.4	-	55.8	54.1	1.7
04:30 AM - 04:35 AM	59.9	58.7	-	56.7	55.4	1.3
04:35 AM - 04:40 AM	60.2	56.9	-	60.5	54.7	5.8
04:40 AM - 04:45 AM	59.0	57.0	-	57.7	54.5	3.2
04:45 AM - 04:50 AM	58.5	57.4	-	55.0	54.0	1.0
04:50 AM - 04:55 AM	58.8	58.0	-	54.1	55.0	-0.9
04:55 AM - 05:00 AM	59.9	57.6	-	59.0	54.6	4.4
05:00 AM - 05:05 AM	59.4	56.7	-	59.1	54.5	4.6
05:05 AM - 05:10 AM	58.0	57.3	-	52.7	54.2	-1.5
05:10 AM - 05:15 AM	60.3	57.3	-	60.3	53.8	6.5
05:15 AM - 05:20 AM	56.8	54.9	-	55.3	53.0	2.3
05:20 AM - 05:25 AM	56.8	55.3	-	54.5	52.8	1.7
05:25 AM - 05:30 AM	56.9	55.8	-	53.4	53.5	-0.1
05:30 AM - 05:35 AM	57.2	55.7	-	54.9	53.0	1.9
05:35 AM - 05:40 AM	56.6	55.7	-	52.3	52.9	-0.6
05:40 AM - 05:45 AM	57.0	55.4	-	54.9	53.2	1.7
05:45 AM - 05:50 AM	57.1	56.5	-	51.2	53.0	-1.8
05:50 AM - 05:55 AM	55.8	54.4	-	53.2	52.2	1.0
05:55 AM - 06:00 AM	55.8	56.5	-	n/a	53.9	-
06:00 AM - 07:00 AM	55.9	55.6	44.1	-	52.5	-8.4
07:00 AM - 08:00 AM	55.7	55.3	45.1	-	52.2	-7.1
08:00 AM - 09:00 AM	55.2	54.9	43.4	-	52.2	-8.8

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง มาตรการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พักการตรวจวัด วันที่ 03-04 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432537-2 วันที่ตรวจวัด 03-04 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed/tested sample(s) indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phraklaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957108-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432523-3
Parameter เสียงรบกวน
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	56.4	56.4	n/a	-	54.1	-
10:00 AM - 11:00 AM	56.3	56.8	n/a	-	54.1	-
11:00 AM - 12:00 PM	56.2	56.7	n/a	-	53.9	-
12:00 PM - 01:00 PM	56.2	57.0	n/a	-	54.4	-
01:00 PM - 02:00 PM	57.0	57.2	n/a	-	54.5	-
02:00 PM - 03:00 PM	57.9	56.7	51.7	-	54.3	-2.6
03:00 PM - 04:00 PM	58.0	56.4	52.9	-	54.0	-1.1
04:00 PM - 05:00 PM	59.4	58.1	53.5	-	55.6	-2.1
05:00 PM - 06:00 PM	56.9	56.6	45.1	-	54.7	-9.6
06:00 PM - 07:00 PM	56.4	56.3	40.0	-	54.2	-14.2
07:00 PM - 08:00 PM	56.4	54.2	52.4	-	52.3	0.1
08:00 PM - 09:00 PM	55.5	55.7	n/a	-	53.4	-
09:00 PM - 10:00 PM	54.4	55.5	n/a	-	53.4	-
10:00 PM - 10:05 PM	54.4	55.0	-	n/a	52.8	-
10:05 PM - 10:10 PM	53.2	55.3	-	n/a	53.9	-
10:10 PM - 10:15 PM	54.2	55.4	-	n/a	52.7	-
10:15 PM - 10:20 PM	55.3	54.4	-	51.0	53.1	-2.1
10:20 PM - 10:25 PM	54.6	55.4	-	n/a	53.6	-
10:25 PM - 10:30 PM	55.1	54.8	-	46.3	53.3	-7.0
10:30 PM - 10:35 PM	52.9	55.1	-	n/a	53.8	-
10:35 PM - 10:40 PM	54.0	55.3	-	n/a	53.5	-
10:40 PM - 10:45 PM	53.7	55.3	-	n/a	53.6	-
10:45 PM - 10:50 PM	55.2	54.7	-	48.6	53.1	-4.5
10:50 PM - 10:55 PM	53.3	54.2	-	n/a	52.3	-
10:55 PM - 11:00 PM	54.3	55.0	-	n/a	53.8	-
11:00 PM - 11:05 PM	54.2	54.1	-	40.8	52.9	-12.1
11:05 PM - 11:10 PM	54.8	53.8	-	50.9	52.1	-1.2
11:10 PM - 11:15 PM	53.7	53.9	-	n/a	53.1	-
11:15 PM - 11:20 PM	55.2	54.8	-	47.6	53.3	-5.7
11:20 PM - 11:25 PM	54.3	54.6	-	n/a	53.6	-
11:25 PM - 11:30 PM	54.6	54.5	-	41.2	53.0	-11.8
11:30 PM - 11:35 PM	54.1	54.3	-	n/a	52.6	-
11:35 PM - 11:40 PM	54.6	54.5	-	41.2	53.0	-11.8
11:40 PM - 11:45 PM	53.8	54.5	-	n/a	53.1	-
11:45 PM - 11:50 PM	53.7	55.2	-	n/a	53.9	-
11:50 PM - 11:55 PM	54.1	55.0	-	n/a	53.4	-
11:55 PM - 12:00 AM	54.4	54.6	-	n/a	52.7	-
12:00 AM - 12:05 AM	55.5	53.2	-	54.6	51.7	2.9
12:05 AM - 12:10 AM	54.8	54.2	-	48.9	52.8	-3.9
12:10 AM - 12:15 AM	53.4	55.2	-	n/a	54.0	-

The above results are valid only for the analyzed/tested sample(s) indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phraklaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957108-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432523-3
Parameter เสียงรบกวน
Location หมู่บ้านพหล (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	53.6	53.8	-	ก/ล	51.8	-
12:20 AM - 12:25 AM	53.3	53.5	-	ก/ล	51.9	-
12:25 AM - 12:30 AM	53.8	54.5	-	ก/ล	53.3	-
12:30 AM - 12:35 AM	54.5	54.5	-	ก/ล	53.5	-
12:35 AM - 12:40 AM	53.7	54.4	-	ก/ล	53.3	-
12:40 AM - 12:45 AM	54.4	55.0	-	ก/ล	53.7	-
12:45 AM - 12:50 AM	53.4	54.2	-	ก/ล	52.9	-
12:50 AM - 12:55 AM	54.1	55.0	-	ก/ล	53.3	-
12:55 AM - 01:00 AM	54.5	56.5	-	ก/ล	54.4	-
01:00 AM - 01:05 AM	55.1	56.3	-	ก/ล	52.1	-
01:05 AM - 01:10 AM	56.6	53.7	-	56.5	52.9	3.6
01:10 AM - 01:15 AM	55.3	54.4	-	51.0	52.7	-1.7
01:15 AM - 01:20 AM	54.3	54.7	-	ก/ล	53.1	-
01:20 AM - 01:25 AM	53.6	54.5	-	ก/ล	53.4	-
01:25 AM - 01:30 AM	53.2	54.4	-	ก/ล	52.1	-
01:30 AM - 01:35 AM	53.9	54.0	-	ก/ล	51.6	-
01:35 AM - 01:40 AM	52.7	54.5	-	ก/ล	52.5	-
01:40 AM - 01:45 AM	52.8	54.0	-	ก/ล	51.0	-
01:45 AM - 01:50 AM	53.0	54.5	-	ก/ล	52.5	-
01:50 AM - 01:55 AM	52.1	54.7	-	ก/ล	52.6	-
01:55 AM - 02:00 AM	52.6	55.0	-	ก/ล	54.1	-
02:00 AM - 02:05 AM	53.0	54.7	-	ก/ล	52.3	-
02:05 AM - 02:10 AM	54.4	54.4	-	ก/ล	52.4	-
02:10 AM - 02:15 AM	53.3	54.4	-	ก/ล	51.3	-
02:15 AM - 02:20 AM	52.0	54.8	-	ก/ล	52.8	-
02:20 AM - 02:25 AM	52.8	55.0	-	ก/ล	53.0	-
02:25 AM - 02:30 AM	53.3	54.8	-	ก/ล	52.2	-
02:30 AM - 02:35 AM	53.1	55.4	-	ก/ล	53.5	-
02:35 AM - 02:40 AM	54.4	55.9	-	ก/ล	53.3	-
02:40 AM - 02:45 AM	53.4	55.4	-	ก/ล	54.2	-
02:45 AM - 02:50 AM	55.5	55.5	-	ก/ล	53.0	-
02:50 AM - 02:55 AM	54.1	54.9	-	ก/ล	53.4	-
02:55 AM - 03:00 AM	55.2	55.1	-	41.8	53.5	-11.7
03:00 AM - 03:05 AM	55.0	55.5	-	ก/ล	53.9	-
03:05 AM - 03:10 AM	54.3	55.1	-	ก/ล	53.1	-
03:10 AM - 03:15 AM	55.4	54.9	-	48.8	51.8	-3.0
03:15 AM - 03:20 AM	53.8	55.8	-	ก/ล	54.5	-
03:20 AM - 03:25 AM	54.7	57.1	-	ก/ล	54.0	-
03:25 AM - 03:30 AM	54.8	56.5	-	ก/ล	55.0	-
03:30 AM - 03:35 AM	57.1	55.8	-	54.2	51.5	2.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957108-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432523-3
Parameter เสียงรบกวน
Location หมู่บ้านพหล (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	55.4	53.6	-	53.7	51.1	2.6
03:40 AM - 03:45 AM	55.4	55.8	-	ก/ล	54.5	-
03:45 AM - 03:50 AM	59.3	57.8	-	57.0	55.2	1.8
03:50 AM - 03:55 AM	56.0	56.1	-	ก/ล	54.6	-
03:55 AM - 04:00 AM	55.0	56.5	-	ก/ล	54.4	-
04:00 AM - 04:05 AM	57.0	56.9	-	43.6	54.2	-10.6
04:05 AM - 04:10 AM	56.0	56.4	-	ก/ล	54.1	-
04:10 AM - 04:15 AM	58.0	56.5	-	55.7	53.8	1.9
04:15 AM - 04:20 AM	57.0	57.4	-	ก/ล	54.1	-
04:20 AM - 04:25 AM	58.5	56.6	-	57.0	54.6	2.4
04:25 AM - 04:30 AM	58.1	56.6	-	55.8	54.5	1.3
04:30 AM - 04:35 AM	58.2	57.0	-	55.0	54.3	0.7
04:35 AM - 04:40 AM	58.2	56.8	-	55.6	53.8	1.8
04:40 AM - 04:45 AM	58.1	57.8	-	49.3	54.6	-5.3
04:45 AM - 04:50 AM	59.2	57.9	-	56.3	55.1	1.2
04:50 AM - 04:55 AM	59.9	57.3	-	59.4	54.7	4.7
04:55 AM - 05:00 AM	59.2	58.2	-	55.3	55.3	0.0
05:00 AM - 05:05 AM	59.6	58.5	-	56.1	56.9	-0.8
05:05 AM - 05:10 AM	60.0	58.1	-	58.5	56.0	2.5
05:10 AM - 05:15 AM	59.9	57.5	-	59.2	55.4	3.8
05:15 AM - 05:20 AM	59.1	57.9	-	55.9	55.6	0.3
05:20 AM - 05:25 AM	58.6	58.1	-	52.0	55.3	-3.3
05:25 AM - 05:30 AM	59.9	58.6	-	57.0	56.3	0.7
05:30 AM - 05:35 AM	59.8	58.1	-	57.9	55.8	2.1
05:35 AM - 05:40 AM	59.0	58.3	-	53.7	55.3	-1.6
05:40 AM - 05:45 AM	59.1	59.1	-	ก/ล	55.1	-
05:45 AM - 05:50 AM	59.3	58.6	-	54.0	55.1	-1.1
05:50 AM - 05:55 AM	61.2	56.6	-	62.4	53.9	8.5
05:55 AM - 06:00 AM	59.6	56.6	-	59.6	54.8	4.8
06:00 AM - 07:00 AM	56.8	56.9	ก/ล	-	54.3	-
07:00 AM - 08:00 AM	56.1	56.4	ก/ล	-	53.3	-
08:00 AM - 09:00 AM	56.5	55.4	50.0	-	53.3	-3.3

ตามมาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432537-3 วันที่ตรวจวัด 04-05 เมษายน 2567)
- ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957109-1

Page 1 of 3

Sample No. 2432523-4
Parameter เสียงรบกวน
Location หมู่บ้านพหลุ (เบ็ญพหลุ) (GPS 47P 0736517, 1411244)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	55.2	55.4	n/a	-	52.1	-
10:00 AM - 11:00 AM	56.1	55.6	46.5	-	52.3	-5.8
11:00 AM - 12:00 PM	56.2	55.5	47.9	-	52.2	-4.3
12:00 PM - 01:00 PM	55.5	55.4	39.1	-	52.5	-13.4
01:00 PM - 02:00 PM	54.8	54.6	41.3	-	51.4	-10.1
02:00 PM - 03:00 PM	55.4	54.9	45.8	-	51.9	-6.1
03:00 PM - 04:00 PM	57.9	57.0	50.6	-	53.5	-2.9
04:00 PM - 05:00 PM	57.2	56.0	51.0	-	53.0	-2.0
05:00 PM - 06:00 PM	60.5	60.0	50.9	-	57.2	-6.3
06:00 PM - 07:00 PM	56.6	55.2	51.0	-	51.8	-0.8
07:00 PM - 08:00 PM	55.2	54.6	46.3	-	51.2	-4.9
08:00 PM - 09:00 PM	53.5	53.3	40.0	-	50.9	-10.9
09:00 PM - 10:00 PM	51.9	52.7	n/a	-	50.6	-
10:00 PM - 10:05 PM	53.2	52.7	-	46.6	49.6	-3.0
10:05 PM - 10:10 PM	50.4	51.7	-	n/a	50.3	-
10:10 PM - 10:15 PM	49.7	52.0	-	n/a	50.8	-
10:15 PM - 10:20 PM	50.9	51.7	-	n/a	49.8	-
10:20 PM - 10:25 PM	50.1	52.8	-	n/a	51.2	-
10:25 PM - 10:30 PM	52.3	52.2	-	38.9	50.4	-11.5
10:30 PM - 10:35 PM	51.4	51.7	-	n/a	50.2	-
10:35 PM - 10:40 PM	50.8	54.0	-	n/a	49.7	-
10:40 PM - 10:45 PM	52.2	53.9	-	n/a	50.3	-
10:45 PM - 10:50 PM	55.6	51.2	-	56.6	49.5	7.1
10:50 PM - 10:55 PM	49.5	51.9	-	n/a	49.8	-
10:55 PM - 11:00 PM	52.6	52.6	-	n/a	50.5	-
11:00 PM - 11:05 PM	51.1	56.2	-	n/a	50.7	-
11:05 PM - 11:10 PM	57.8	51.9	-	59.5	50.8	8.7
11:10 PM - 11:15 PM	49.8	52.0	-	n/a	50.5	-
11:15 PM - 11:20 PM	51.2	52.8	-	n/a	50.7	-
11:20 PM - 11:25 PM	50.3	52.7	-	n/a	50.2	-
11:25 PM - 11:30 PM	53.1	53.5	-	n/a	50.6	-
11:30 PM - 11:35 PM	51.6	53.7	-	n/a	50.9	-
11:35 PM - 11:40 PM	52.9	52.1	-	48.2	50.6	-2.4
11:40 PM - 11:45 PM	48.8	51.9	-	n/a	50.2	-
11:45 PM - 11:50 PM	50.9	53.6	-	n/a	50.4	-
11:50 PM - 11:55 PM	51.5	52.0	-	n/a	51.0	-
11:55 PM - 12:00 AM	52.5	52.1	-	44.9	50.6	-5.7
12:00 AM - 12:05 AM	51.2	52.2	-	n/a	51.0	-
12:05 AM - 12:10 AM	50.0	52.7	-	n/a	50.8	-
12:10 AM - 12:15 AM	52.4	51.5	-	48.1	50.7	-2.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957109-1

Page 2 of 3

Sample No. 2432523-4
Parameter เสียงรบกวน
Location หมู่บ้านพหลุ (เบ็ญพหลุ) (GPS 47P 0736517, 1411244)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	49.1	52.3	-	n/a	49.3	-
12:20 AM - 12:25 AM	47.7	51.3	-	n/a	50.3	-
12:25 AM - 12:30 AM	51.4	51.8	-	n/a	49.8	-
12:30 AM - 12:35 AM	49.8	59.0	-	n/a	50.2	-
12:35 AM - 12:40 AM	53.0	56.2	-	n/a	51.0	-
12:40 AM - 12:45 AM	58.7	55.2	-	59.1	50.7	8.4
12:45 AM - 12:50 AM	51.9	53.7	-	n/a	50.0	-
12:50 AM - 12:55 AM	50.5	52.2	-	n/a	50.7	-
12:55 AM - 01:00 AM	49.5	52.0	-	n/a	50.3	-
01:00 AM - 01:05 AM	50.0	52.6	-	n/a	50.8	-
01:05 AM - 01:10 AM	51.5	54.1	-	n/a	50.8	-
01:10 AM - 01:15 AM	51.3	51.7	-	n/a	49.8	-
01:15 AM - 01:20 AM	49.5	51.5	-	n/a	50.5	-
01:20 AM - 01:25 AM	48.4	52.8	-	n/a	50.3	-
01:25 AM - 01:30 AM	50.5	51.1	-	n/a	49.9	-
01:30 AM - 01:35 AM	48.0	51.8	-	n/a	50.4	-
01:35 AM - 01:40 AM	50.0	52.1	-	n/a	50.7	-
01:40 AM - 01:45 AM	50.4	51.6	-	n/a	50.4	-
01:45 AM - 01:50 AM	48.8	51.6	-	n/a	50.2	-
01:50 AM - 01:55 AM	49.5	51.4	-	n/a	49.9	-
01:55 AM - 02:00 AM	49.4	50.9	-	n/a	49.9	-
02:00 AM - 02:05 AM	48.4	51.8	-	n/a	50.0	-
02:05 AM - 02:10 AM	48.7	50.3	-	n/a	49.5	-
02:10 AM - 02:15 AM	47.8	50.7	-	n/a	49.4	-
02:15 AM - 02:20 AM	48.1	51.4	-	n/a	49.7	-
02:20 AM - 02:25 AM	49.6	51.0	-	n/a	50.4	-
02:25 AM - 02:30 AM	48.9	52.1	-	n/a	49.8	-
02:30 AM - 02:35 AM	50.3	51.7	-	n/a	49.6	-
02:35 AM - 02:40 AM	49.5	50.7	-	n/a	49.8	-
02:40 AM - 02:45 AM	49.2	50.8	-	n/a	50.4	-
02:45 AM - 02:50 AM	47.4	51.6	-	n/a	49.8	-
02:50 AM - 02:55 AM	50.3	51.8	-	n/a	49.8	-
02:55 AM - 03:00 AM	51.0	52.4	-	n/a	50.1	-
03:00 AM - 03:05 AM	51.7	51.7	-	n/a	50.0	-
03:05 AM - 03:10 AM	50.9	51.6	-	n/a	49.6	-
03:10 AM - 03:15 AM	49.6	51.1	-	n/a	50.6	-
03:15 AM - 03:20 AM	48.4	51.6	-	n/a	50.1	-
03:20 AM - 03:25 AM	49.5	51.8	-	n/a	49.9	-
03:25 AM - 03:30 AM	49.6	52.3	-	n/a	49.6	-4.5
03:30 AM - 03:35 AM	52.7	52.3	-	45.1	49.6	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957109-1

Page 3 of 3

Sample No. 2432523-4
Parameter เสียงรบกวน
Location หมู่บ้านพนมเขต (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	52.0	51.4	-	46.1	49.7	-3.6
03:40 AM - 03:45 AM	51.2	51.6	-	n/a	49.7	-
03:45 AM - 03:50 AM	50.1	51.4	-	n/a	49.6	-
03:50 AM - 03:55 AM	50.7	51.7	-	n/a	49.5	-
03:55 AM - 04:00 AM	51.9	51.8	-	38.5	49.6	-11.1
04:00 AM - 04:05 AM	51.4	52.7	-	n/a	49.9	-
04:05 AM - 04:10 AM	53.2	53.8	-	n/a	50.8	-
04:10 AM - 04:15 AM	54.1	52.0	-	52.9	50.8	2.1
04:15 AM - 04:20 AM	51.1	53.2	-	n/a	51.4	-
04:20 AM - 04:25 AM	52.0	52.8	-	n/a	50.5	-
04:25 AM - 04:30 AM	53.5	52.4	-	50.0	49.8	0.2
04:30 AM - 04:35 AM	63.9	61.3	-	63.4	58.6	4.8
04:35 AM - 04:40 AM	64.6	63.1	-	62.3	58.2	4.1
04:40 AM - 04:45 AM	59.5	55.3	-	60.4	51.5	8.9
04:45 AM - 04:50 AM	56.1	53.8	-	55.2	51.1	4.1
04:50 AM - 04:55 AM	53.8	53.6	-	43.3	51.1	-7.8
04:55 AM - 05:00 AM	53.5	54.3	-	n/a	51.5	-
05:00 AM - 05:05 AM	53.9	53.5	-	46.3	51.2	-4.9
05:05 AM - 05:10 AM	54.2	53.7	-	47.6	51.3	-3.7
05:10 AM - 05:15 AM	54.5	55.6	-	n/a	52.4	-
05:15 AM - 05:20 AM	56.5	57.0	-	n/a	52.2	-
05:20 AM - 05:25 AM	54.9	54.8	-	41.5	52.0	-10.5
05:25 AM - 05:30 AM	55.7	54.6	-	52.2	51.6	0.6
05:30 AM - 05:35 AM	56.3	55.4	-	52.0	51.0	1.0
05:35 AM - 05:40 AM	57.2	55.7	-	54.9	52.1	2.8
05:40 AM - 05:45 AM	56.0	56.8	-	n/a	52.3	-
05:45 AM - 05:50 AM	57.8	55.7	-	56.6	52.2	4.4
05:50 AM - 05:55 AM	58.3	55.6	-	58.0	52.5	5.5
05:55 AM - 06:00 AM	57.0	56.3	-	51.7	52.6	-0.9
06:00 AM - 07:00 AM	57.8	56.4	52.2	-	52.6	-0.4
07:00 AM - 08:00 AM	56.1	55.7	45.5	-	51.7	-6.2
08:00 AM - 09:00 AM	55.7	55.3	45.1	-	51.6	-6.5
ค่ามาตรฐาน						≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

หมายเหตุ
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทิศการตรวจวัด วันที่ 05-06 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432523-4) วันที่ตรวจวัด 05-06 เมษายน 2567
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957110-1

Page 1 of 3

Sample No. 2432523-5
Parameter เสียงรบกวน
Location หมู่บ้านพนมเขต (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	56.5	56.1	45.9	-	52.9	-7.0
10:00 AM - 11:00 AM	55.5	55.9	n/a	-	52.7	-
11:00 AM - 12:00 PM	56.6	56.0	47.7	-	53.0	-5.3
12:00 PM - 01:00 PM	56.7	56.4	44.9	-	53.4	-8.5
01:00 PM - 02:00 PM	56.6	55.7	49.3	-	53.1	-3.8
02:00 PM - 03:00 PM	57.8	56.6	51.6	-	53.6	-2.0
03:00 PM - 04:00 PM	57.9	56.4	52.6	-	53.5	-0.9
04:00 PM - 05:00 PM	61.2	60.0	55.0	-	57.8	-2.8
05:00 PM - 06:00 PM	56.8	55.3	51.5	-	52.7	-1.2
06:00 PM - 07:00 PM	55.6	54.5	49.1	-	52.4	-3.3
07:00 PM - 08:00 PM	55.2	54.6	46.3	-	52.3	-6.0
08:00 PM - 09:00 PM	54.3	54.7	n/a	-	52.6	-
09:00 PM - 10:00 PM	54.3	54.0	42.5	-	52.0	-9.5
10:00 PM - 10:05 PM	55.0	53.7	-	52.1	52.3	-0.2
10:05 PM - 10:10 PM	53.1	54.5	-	n/a	52.2	-
10:10 PM - 10:15 PM	55.4	55.4	-	n/a	52.7	-
10:15 PM - 10:20 PM	53.5	53.4	-	40.1	52.2	-12.1
10:20 PM - 10:25 PM	53.3	53.4	-	n/a	52.1	-
10:25 PM - 10:30 PM	53.5	53.4	-	40.1	52.1	-12.0
10:30 PM - 10:35 PM	52.8	55.6	-	n/a	52.2	-
10:35 PM - 10:40 PM	54.8	53.2	-	52.7	52.2	0.5
10:40 PM - 10:45 PM	53.6	54.1	-	n/a	52.0	-
10:45 PM - 10:50 PM	54.3	52.9	-	51.7	51.8	-0.1
10:50 PM - 10:55 PM	53.3	54.3	-	n/a	52.5	-
10:55 PM - 11:00 PM	52.9	53.5	-	n/a	52.0	-
11:00 PM - 11:05 PM	53.4	53.5	-	n/a	52.2	-
11:05 PM - 11:10 PM	52.3	53.2	-	n/a	51.8	-
11:10 PM - 11:15 PM	53.0	53.6	-	n/a	52.1	-
11:15 PM - 11:20 PM	52.7	53.6	-	n/a	52.1	-
11:20 PM - 11:25 PM	53.8	53.0	-	49.1	52.1	-3.0
11:25 PM - 11:30 PM	53.1	53.2	-	n/a	51.8	-
11:30 PM - 11:35 PM	52.5	53.5	-	n/a	52.0	-
11:35 PM - 11:40 PM	52.7	52.6	-	39.3	51.0	-11.7
11:40 PM - 11:45 PM	52.0	54.1	-	n/a	52.8	-
11:45 PM - 11:50 PM	52.9	53.4	-	n/a	51.9	-
11:50 PM - 11:55 PM	53.1	53.8	-	n/a	52.2	-
11:55 PM - 12:00 AM	51.1	53.9	-	n/a	52.1	-
12:00 AM - 12:05 AM	52.8	54.0	-	n/a	52.2	-
12:05 AM - 12:10 AM	53.8	52.3	-	51.5	51.3	0.2
12:10 AM - 12:15 AM	52.9	54.1	-	n/a	52.2	-

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957110-1

Sample No. : 2432523-5
Parameter : เสียงรบกวน
Location : โรงงานพทศ (เป็นพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120936

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	53.9	53.6	-	45.1	51.9	-6.8
12:20 AM - 12:25 AM	52.6	54.7	-	n/a	52.5	-
12:25 AM - 12:30 AM	54.9	52.6	-	54.0	51.6	2.4
12:30 AM - 12:35 AM	53.2	53.3	-	n/a	51.5	-
12:35 AM - 12:40 AM	52.8	54.8	-	n/a	52.3	-
12:40 AM - 12:45 AM	53.9	54.2	-	n/a	52.2	-
12:45 AM - 12:50 AM	53.5	53.7	-	n/a	51.9	-
12:50 AM - 12:55 AM	52.7	53.2	-	n/a	51.5	-
12:55 AM - 01:00 AM	53.2	54.0	-	n/a	52.2	-
01:00 AM - 01:05 AM	53.1	55.7	-	n/a	50.6	-
01:05 AM - 01:10 AM	57.5	54.4	-	57.6	52.2	5.4
01:10 AM - 01:15 AM	52.7	53.1	-	n/a	51.3	-
01:15 AM - 01:20 AM	54.6	52.9	-	52.7	51.4	1.3
01:20 AM - 01:25 AM	53.8	53.3	-	47.2	51.7	-4.5
01:25 AM - 01:30 AM	53.0	54.2	-	n/a	52.4	-
01:30 AM - 01:35 AM	52.9	53.6	-	n/a	52.1	-
01:35 AM - 01:40 AM	54.6	54.7	-	n/a	52.5	-
01:40 AM - 01:45 AM	53.4	53.2	-	42.9	52.0	-9.1
01:45 AM - 01:50 AM	52.5	55.0	-	n/a	53.1	-
01:50 AM - 01:55 AM	54.6	53.9	-	49.3	51.3	-2.0
01:55 AM - 02:00 AM	53.6	54.8	-	n/a	53.5	-
02:00 AM - 02:05 AM	53.4	54.2	-	n/a	52.3	-
02:05 AM - 02:10 AM	54.4	54.2	-	43.9	52.7	-8.8
02:10 AM - 02:15 AM	54.2	53.9	-	45.4	52.5	-7.1
02:15 AM - 02:20 AM	53.5	54.7	-	n/a	53.3	-
02:20 AM - 02:25 AM	55.3	54.6	-	50.0	52.8	-2.8
02:25 AM - 02:30 AM	54.5	54.3	-	44.0	52.5	-8.5
02:30 AM - 02:35 AM	55.2	54.7	-	48.6	51.6	-3.0
02:35 AM - 02:40 AM	53.5	54.4	-	n/a	52.2	-
02:40 AM - 02:45 AM	54.8	54.7	-	41.4	52.8	-11.4
02:45 AM - 02:50 AM	54.9	54.0	-	50.6	51.9	-1.3
02:50 AM - 02:55 AM	54.7	54.8	-	n/a	52.7	-
02:55 AM - 03:00 AM	54.5	54.8	-	n/a	52.6	-
03:00 AM - 03:05 AM	54.5	56.0	-	n/a	53.7	-
03:05 AM - 03:10 AM	56.5	55.3	-	53.3	52.3	1.0
03:10 AM - 03:15 AM	54.0	54.3	-	n/a	52.5	-
03:15 AM - 03:20 AM	63.5	63.1	-	55.9	60.3	-4.4
03:20 AM - 03:25 AM	55.5	54.8	-	50.2	52.7	-2.5
03:25 AM - 03:30 AM	63.3	62.6	-	58.0	60.6	-2.6
03:30 AM - 03:35 AM	55.1	55.1	-	n/a	53.1	-

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilab.
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Prachinburi Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT TRAPTURE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957110-1

Sample No. : 2432523-5
Parameter : เสียงรบกวน
Location : โรงงานพทศ (เป็นพยอม) (GPS 47P 0736517, 1411244)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120936

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	55.6	54.9	-	50.3	52.8	-2.5
03:40 AM - 03:45 AM	54.9	56.0	-	n/a	54.0	-
03:45 AM - 03:50 AM	56.2	56.2	-	47.7	53.1	-5.4
03:50 AM - 03:55 AM	56.1	55.9	-	45.6	53.0	-7.4
03:55 AM - 04:00 AM	56.0	56.6	-	n/a	53.7	-
04:00 AM - 04:05 AM	57.4	56.1	-	54.5	53.9	0.6
04:05 AM - 04:10 AM	57.5	55.2	-	56.6	52.9	3.7
04:10 AM - 04:15 AM	55.1	55.0	-	41.7	52.7	-11.0
04:15 AM - 04:20 AM	55.5	56.6	-	n/a	53.6	-
04:20 AM - 04:25 AM	58.0	56.5	-	55.7	53.3	2.4
04:25 AM - 04:30 AM	56.1	54.9	-	52.9	52.7	0.2
04:30 AM - 04:35 AM	56.3	55.6	-	51.0	53.1	-2.1
04:35 AM - 04:40 AM	56.3	56.7	-	n/a	53.3	-
04:40 AM - 04:45 AM	58.9	57.7	-	55.7	53.6	2.1
04:45 AM - 04:50 AM	57.2	56.3	-	52.9	53.1	-0.2
04:50 AM - 04:55 AM	57.4	57.2	-	46.9	53.4	-6.5
04:55 AM - 05:00 AM	58.9	56.2	-	58.6	53.2	5.4
05:00 AM - 05:05 AM	57.3	56.4	-	53.0	54.6	-1.6
05:05 AM - 05:10 AM	57.1	55.3	-	55.4	53.3	2.1
05:10 AM - 05:15 AM	56.9	56.2	-	51.6	53.4	-1.8
05:15 AM - 05:20 AM	57.5	55.9	-	55.4	53.4	2.0
05:20 AM - 05:25 AM	57.6	56.1	-	55.3	53.2	2.1
05:25 AM - 05:30 AM	56.4	55.6	-	51.7	53.2	-1.5
05:30 AM - 05:35 AM	56.8	56.8	-	n/a	53.4	-
05:35 AM - 05:40 AM	58.3	56.8	-	56.0	54.1	1.9
05:40 AM - 05:45 AM	56.2	55.7	-	49.6	53.4	-3.8
05:45 AM - 05:50 AM	55.8	55.8	-	n/a	53.7	-
05:50 AM - 05:55 AM	55.4	55.3	-	42.0	53.3	-11.3
05:55 AM - 06:00 AM	55.0	56.3	-	n/a	53.2	-
06:00 AM - 07:00 AM	56.1	56.1	n/a	-	53.6	-
07:00 AM - 08:00 AM	56.0	56.2	n/a	-	53.5	-
08:00 AM - 09:00 AM	54.6	55.0	n/a	-	52.6	-

ค่ามาตรฐาน

Reference Method :

1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

1. ระดับเสียงจากแหล่งกำเนิด พิกัดตรวจวัด วันที่ 06-07 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No. 2432537-5 วันที่ตรวจวัด 06-07 เมษายน 2567)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilab.
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Prachinburi Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT TRAPTURE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957111-1

Page 1 of 3

Sample No. 2432523-6
Parameter เสียงรบกวน
Location หมู่บ้านพลกุด (เงินพดด้วง) (GPS 47P 0736517, 1411244)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	56.0	55.8	42.5	-	51.5	-9.0
10:00 AM - 11:00 AM	55.5	56.3	n/a	-	51.6	-
11:00 AM - 12:00 PM	56.2	55.8	45.6	-	51.2	-5.6
12:00 PM - 01:00 PM	56.3	55.2	49.8	-	51.2	-1.4
01:00 PM - 02:00 PM	57.3	55.9	51.7	-	51.6	0.1
02:00 PM - 03:00 PM	56.3	55.9	45.7	-	51.1	-5.4
03:00 PM - 04:00 PM	58.7	57.1	53.6	-	52.5	1.1
04:00 PM - 05:00 PM	59.0	56.3	55.7	-	52.4	3.3
05:00 PM - 06:00 PM	58.8	57.4	53.2	-	53.0	0.2
06:00 PM - 07:00 PM	57.2	54.9	53.3	-	51.0	2.3
07:00 PM - 08:00 PM	56.6	54.0	53.1	-	50.4	2.7
08:00 PM - 09:00 PM	55.2	53.4	50.5	-	49.7	0.8
09:00 PM - 10:00 PM	54.8	53.2	49.7	-	49.7	0.0
10:00 PM - 10:05 PM	54.5	53.4	-	51.0	50.2	0.8
10:05 PM - 10:10 PM	54.6	52.5	-	53.4	48.3	5.1
10:10 PM - 10:15 PM	57.3	53.0	-	58.3	50.2	8.1
10:15 PM - 10:20 PM	53.7	51.4	-	52.8	48.2	4.6
10:20 PM - 10:25 PM	53.8	55.1	-	n/a	50.2	-
10:25 PM - 10:30 PM	54.0	52.4	-	51.9	48.3	3.6
10:30 PM - 10:35 PM	54.5	54.0	-	47.9	50.1	-2.2
10:35 PM - 10:40 PM	53.1	52.3	-	48.4	48.2	0.2
10:40 PM - 10:45 PM	54.1	51.7	-	53.4	49.8	3.6
10:45 PM - 10:50 PM	54.8	55.0	-	n/a	48.8	-
10:50 PM - 10:55 PM	52.6	51.6	-	48.7	49.8	-1.1
10:55 PM - 11:00 PM	53.1	51.5	-	51.0	48.0	3.0
11:00 PM - 11:05 PM	54.7	51.5	-	54.9	49.7	5.2
11:05 PM - 11:10 PM	54.1	51.8	-	53.2	47.8	5.4
11:10 PM - 11:15 PM	56.7	54.5	-	55.7	49.7	6.0
11:15 PM - 11:20 PM	55.7	52.1	-	56.2	48.8	7.4
11:20 PM - 11:25 PM	54.6	51.2	-	54.9	49.7	5.2
11:25 PM - 11:30 PM	53.7	51.4	-	52.8	48.4	4.4
11:30 PM - 11:35 PM	54.2	52.3	-	52.7	50.4	2.3
11:35 PM - 11:40 PM	52.3	49.5	-	52.1	47.0	5.1
11:40 PM - 11:45 PM	54.0	50.4	-	54.5	48.0	6.5
11:45 PM - 11:50 PM	54.0	51.2	-	53.8	47.0	6.8
11:50 PM - 11:55 PM	53.7	50.5	-	53.9	49.0	4.9
11:55 PM - 12:00 AM	52.7	51.0	-	50.8	48.0	2.8
12:00 AM - 12:05 AM	52.7	52.8	-	n/a	49.2	-
12:05 AM - 12:10 AM	53.4	50.4	-	53.4	48.6	4.8
12:10 AM - 12:15 AM	52.7	51.7	-	48.8	49.4	-0.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wib.B.

Wiwann Borirak
Manager

ADDRESS 616/10 Moo 5 - T. Maenam Kho A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957111-1

Page 2 of 3

Sample No. 2432523-6
Parameter เสียงรบกวน
Location หมู่บ้านพลกุด (เงินพดด้วง) (GPS 47P 0736517, 1411244)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	53.9	54.5	-	n/a	49.4	-
12:20 AM - 12:25 AM	53.4	50.9	-	52.8	49.4	3.4
12:25 AM - 12:30 AM	52.8	50.5	-	51.9	48.0	3.9
12:30 AM - 12:35 AM	51.7	50.7	-	47.8	49.2	-1.4
12:35 AM - 12:40 AM	54.2	51.3	-	54.1	48.5	5.6
12:40 AM - 12:45 AM	53.6	50.8	-	53.4	49.7	3.7
12:45 AM - 12:50 AM	52.5	51.2	-	49.6	48.1	1.5
12:50 AM - 12:55 AM	52.4	52.2	-	41.9	50.0	-8.1
12:55 AM - 01:00 AM	52.9	51.1	-	51.2	48.6	2.6
01:00 AM - 01:05 AM	52.6	51.0	-	50.5	49.8	0.7
01:05 AM - 01:10 AM	52.6	51.7	-	48.3	49.0	-0.7
01:10 AM - 01:15 AM	53.3	50.2	-	53.4	49.3	4.1
01:15 AM - 01:20 AM	52.7	50.3	-	52.0	48.2	3.8
01:20 AM - 01:25 AM	54.7	51.6	-	54.8	49.9	4.9
01:25 AM - 01:30 AM	53.8	50.9	-	53.7	47.8	5.9
01:30 AM - 01:35 AM	52.7	50.9	-	51.0	49.7	1.3
01:35 AM - 01:40 AM	52.0	50.5	-	49.7	48.1	1.6
01:40 AM - 01:45 AM	53.1	52.0	-	49.6	49.7	-0.1
01:45 AM - 01:50 AM	51.8	51.9	-	n/a	47.9	-
01:50 AM - 01:55 AM	52.9	51.5	-	50.3	49.7	0.6
01:55 AM - 02:00 AM	52.8	50.6	-	51.8	47.7	4.1
02:00 AM - 02:05 AM	53.4	50.5	-	53.3	49.4	3.9
02:05 AM - 02:10 AM	52.6	51.3	-	49.7	48.1	1.6
02:10 AM - 02:15 AM	52.3	51.3	-	48.4	48.2	0.2
02:15 AM - 02:20 AM	53.1	50.6	-	52.5	49.4	3.1
02:20 AM - 02:25 AM	52.6	51.1	-	50.3	49.3	1.0
02:25 AM - 02:30 AM	53.0	52.4	-	47.1	49.5	-2.4
02:30 AM - 02:35 AM	49.7	50.4	-	51.3	48.6	2.7
02:35 AM - 02:40 AM	52.8	52.4	-	45.2	49.6	-4.4
02:40 AM - 02:45 AM	52.2	50.5	-	50.3	48.1	2.2
02:45 AM - 02:50 AM	53.2	51.8	-	50.6	50.1	0.5
02:50 AM - 02:55 AM	52.3	52.2	-	38.9	49.1	-10.2
02:55 AM - 03:00 AM	53.6	53.1	-	47.0	50.0	-3.0
03:00 AM - 03:05 AM	52.7	53.9	-	n/a	48.6	-
03:05 AM - 03:10 AM	53.5	52.1	-	50.9	50.3	0.6
03:10 AM - 03:15 AM	52.5	52.8	-	n/a	48.4	-
03:15 AM - 03:20 AM	53.7	52.3	-	51.1	50.0	1.1
03:20 AM - 03:25 AM	52.3	53.9	-	n/a	49.4	-
03:25 AM - 03:30 AM	55.0	53.1	-	53.5	50.5	3.0
03:30 AM - 03:35 AM	54.4	54.1	-	45.6	49.0	-3.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wib.B.

Wiwann Borirak
Manager

ADDRESS 616/10 Moo 5 - T. Maenam Kho A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957111-1

Page 3 of 3

Sample No. 2432523-6
Parameter เสียงรบกวน
Location หมู่บ้านพนาศุ (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	52.9	56.3	-	n/a	50.8	-
03:40 AM - 03:45 AM	55.6	53.7	-	54.1	50.0	4.1
03:45 AM - 03:50 AM	53.0	52.9	-	39.6	50.6	-11.0
03:50 AM - 03:55 AM	54.3	52.7	-	52.2	49.1	3.1
03:55 AM - 04:00 AM	54.7	53.5	-	51.5	50.8	0.7
04:00 AM - 04:05 AM	54.4	55.3	-	n/a	51.2	-
04:05 AM - 04:10 AM	53.6	53.2	-	46.0	50.2	-4.2
04:10 AM - 04:15 AM	54.7	53.8	-	50.4	50.3	0.1
04:15 AM - 04:20 AM	55.7	52.3	-	56.0	47.1	8.9
04:20 AM - 04:25 AM	53.8	51.1	-	53.5	48.7	4.8
04:25 AM - 04:30 AM	55.1	56.4	-	n/a	52.3	-
04:30 AM - 04:35 AM	57.2	55.8	-	54.6	52.6	2.0
04:35 AM - 04:40 AM	54.1	55.2	-	n/a	51.5	-
04:40 AM - 04:45 AM	55.3	55.6	-	n/a	51.8	-
04:45 AM - 04:50 AM	58.2	55.8	-	57.5	52.0	5.5
04:50 AM - 04:55 AM	61.7	59.4	-	60.8	56.2	4.6
04:55 AM - 05:00 AM	58.0	55.1	-	57.9	52.1	5.8
05:00 AM - 05:05 AM	58.1	59.8	-	n/a	53.1	-
05:05 AM - 05:10 AM	56.3	56.5	-	n/a	52.8	-
05:10 AM - 05:15 AM	57.0	59.3	-	n/a	54.2	-
05:15 AM - 05:20 AM	56.9	57.1	-	n/a	53.0	-
05:20 AM - 05:25 AM	56.9	56.1	-	52.2	52.0	0.2
05:25 AM - 05:30 AM	56.9	58.4	-	n/a	53.3	-
05:30 AM - 05:35 AM	57.5	58.1	-	n/a	53.8	-
05:35 AM - 05:40 AM	58.4	57.9	-	51.8	53.8	-2.0
05:40 AM - 05:45 AM	58.3	58.4	-	n/a	54.2	-
05:45 AM - 05:50 AM	57.9	57.6	-	49.1	53.9	-4.8
05:50 AM - 05:55 AM	59.0	57.3	-	57.1	54.4	2.7
05:55 AM - 06:00 AM	59.4	58.8	-	53.5	54.4	-0.9
06:00 AM - 07:00 AM	59.8	57.9	55.3	-	53.1	2.2
07:00 AM - 08:00 AM	59.1	56.9	55.1	-	52.1	3.0
08:00 AM - 09:00 AM	55.8	55.5	44.0	-	50.4	-6.4

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง 18การตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรมการรบกวน (Sample No.2432537-6 วันที่ตรวจวัด 07-08 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรมการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957112-1

Page 1 of 3

Sample No. 2432523-7
Parameter เสียงรบกวน
Location หมู่บ้านพนาศุ (เนินพยอม) (GPS 47P 0736517, 1411244)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
09:00 AM - 10:00 AM	55.8	55.8	n/a	-	52.5	-
10:00 AM - 11:00 AM	55.6	54.7	48.3	-	51.4	-3.1
11:00 AM - 12:00 PM	54.8	55.3	n/a	-	52.0	-
12:00 PM - 01:00 PM	55.5	55.2	43.7	-	51.6	-7.9
01:00 PM - 02:00 PM	55.8	55.7	39.4	-	52.2	-12.8
02:00 PM - 03:00 PM	55.8	55.9	n/a	-	52.6	-
03:00 PM - 04:00 PM	56.4	55.5	49.1	-	51.7	-2.6
04:00 PM - 05:00 PM	57.0	56.3	48.7	-	53.1	-4.4
05:00 PM - 06:00 PM	58.0	56.1	53.5	-	52.6	0.9
06:00 PM - 07:00 PM	57.5	57.5	n/a	-	52.9	-
07:00 PM - 08:00 PM	55.7	55.6	39.3	-	53.2	-13.9
08:00 PM - 09:00 PM	55.0	54.7	43.2	-	51.8	-8.6
09:00 PM - 10:00 PM	53.3	54.3	n/a	-	51.8	-
10:00 PM - 10:05 PM	54.5	53.4	-	51.0	50.9	0.1
10:05 PM - 10:10 PM	55.2	53.5	-	53.3	50.8	2.5
10:10 PM - 10:15 PM	53.5	53.3	-	43.0	50.9	-7.9
10:15 PM - 10:20 PM	56.5	52.6	-	57.2	50.8	6.4
10:20 PM - 10:25 PM	52.9	51.8	-	49.4	50.4	-1.0
10:25 PM - 10:30 PM	52.8	53.6	-	n/a	51.0	-
10:30 PM - 10:35 PM	52.2	52.7	-	n/a	50.3	-
10:35 PM - 10:40 PM	51.4	52.4	-	n/a	50.7	-
10:40 PM - 10:45 PM	50.8	55.2	-	n/a	52.6	-
10:45 PM - 10:50 PM	53.1	52.0	-	49.6	50.5	-0.9
10:50 PM - 10:55 PM	52.4	52.2	-	41.9	50.5	-8.6
10:55 PM - 11:00 PM	50.9	51.6	-	n/a	50.4	-
11:00 PM - 11:05 PM	55.2	51.6	-	55.7	50.5	5.2
11:05 PM - 11:10 PM	50.1	51.5	-	n/a	50.4	-
11:10 PM - 11:15 PM	50.9	51.3	-	n/a	50.3	-
11:15 PM - 11:20 PM	49.8	51.9	-	n/a	50.5	-
11:20 PM - 11:25 PM	51.7	51.4	-	42.9	50.4	-7.5
11:25 PM - 11:30 PM	51.1	52.4	-	n/a	50.5	-
11:30 PM - 11:35 PM	50.9	53.6	-	n/a	51.3	-
11:35 PM - 11:40 PM	51.5	52.4	-	n/a	50.7	-
11:40 PM - 11:45 PM	50.8	52.3	-	n/a	51.2	-
11:45 PM - 11:50 PM	52.5	53.5	-	n/a	50.6	-
11:50 PM - 11:55 PM	51.6	53.2	-	n/a	50.8	-
11:55 PM - 12:00 AM	50.3	51.4	-	n/a	50.1	-
12:00 AM - 12:05 AM	52.0	53.0	-	n/a	50.7	-
12:05 AM - 12:10 AM	52.8	55.5	-	n/a	51.2	-
12:10 AM - 12:15 AM	50.9	52.1	-	n/a	50.7	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957112-1

Sample No. 2432523-7
Parameter เสียงรบกวน
Location หมู่บ้านพลุด (ถนนพหลโยธิน) (GPS 47P 0736517, 1411244)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:15 AM - 12:20 AM	49.5	52.2	-	n/a	50.7	-
12:20 AM - 12:25 AM	50.7	54.1	-	n/a	51.9	-
12:25 AM - 12:30 AM	54.4	54.2	-	43.9	51.0	-7.1
12:30 AM - 12:35 AM	51.7	53.5	-	n/a	50.9	-
12:35 AM - 12:40 AM	50.7	51.7	-	n/a	50.7	-
12:40 AM - 12:45 AM	51.9	53.7	-	n/a	50.7	-
12:45 AM - 12:50 AM	53.0	52.4	-	47.1	50.4	-3.3
12:50 AM - 12:55 AM	51.7	52.1	-	n/a	50.1	-
12:55 AM - 01:00 AM	50.0	53.3	-	n/a	51.0	-
01:00 AM - 01:05 AM	53.8	52.4	-	51.2	48.6	2.6
01:05 AM - 01:10 AM	51.4	51.0	-	43.8	48.1	-4.3
01:10 AM - 01:15 AM	52.9	49.6	-	53.2	48.2	5.0
01:15 AM - 01:20 AM	53.3	51.2	-	52.1	48.7	3.4
01:20 AM - 01:25 AM	53.9	51.0	-	53.8	49.4	4.4
01:25 AM - 01:30 AM	52.7	50.3	-	52.0	47.6	4.4
01:30 AM - 01:35 AM	54.1	51.0	-	54.2	48.5	5.7
01:35 AM - 01:40 AM	53.3	50.3	-	53.3	48.4	4.9
01:40 AM - 01:45 AM	53.0	51.3	-	51.1	49.1	2.0
01:45 AM - 01:50 AM	53.4	50.4	-	53.4	48.5	4.9
01:50 AM - 01:55 AM	55.3	51.9	-	55.6	49.7	5.9
01:55 AM - 02:00 AM	53.5	50.6	-	53.4	48.2	5.2
02:00 AM - 02:05 AM	52.6	49.8	-	52.4	48.3	4.1
02:05 AM - 02:10 AM	53.8	49.9	-	54.5	48.3	6.2
02:10 AM - 02:15 AM	52.7	55.5	-	n/a	49.1	-
02:15 AM - 02:20 AM	54.1	51.4	-	53.8	49.9	3.9
02:20 AM - 02:25 AM	52.1	50.2	-	50.6	48.5	2.1
02:25 AM - 02:30 AM	53.5	52.0	-	51.2	49.6	1.6
02:30 AM - 02:35 AM	52.1	51.1	-	48.2	48.1	0.1
02:35 AM - 02:40 AM	53.4	50.8	-	52.9	49.9	3.0
02:40 AM - 02:45 AM	52.9	51.3	-	50.8	49.2	1.6
02:45 AM - 02:50 AM	55.1	51.4	-	55.7	50.2	5.5
02:50 AM - 02:55 AM	53.1	50.8	-	52.2	48.5	3.7
02:55 AM - 03:00 AM	53.3	50.9	-	52.6	48.7	3.9
03:00 AM - 03:05 AM	53.9	50.0	-	54.6	48.1	6.5
03:05 AM - 03:10 AM	54.2	52.1	-	53.0	49.8	3.2
03:10 AM - 03:15 AM	53.8	51.0	-	53.6	48.9	4.7
03:15 AM - 03:20 AM	53.5	52.2	-	50.6	50.5	0.1
03:20 AM - 03:25 AM	53.6	51.5	-	52.4	48.8	3.6
03:25 AM - 03:30 AM	54.1	51.8	-	53.2	49.9	3.3
03:30 AM - 03:35 AM	53.6	51.9	-	51.7	48.7	3.0

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432523
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957112-1

Sample No. 2432523-7
Parameter เสียงรบกวน
Location หมู่บ้านพลุด (ถนนพหลโยธิน) (GPS 47P 0736517, 1411244)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120936

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:35 AM - 03:40 AM	53.1	50.6	-	52.5	49.7	* 2.8
03:40 AM - 03:45 AM	53.9	51.6	-	53.0	48.2	4.8
03:45 AM - 03:50 AM	53.8	51.3	-	53.2	49.8	3.4
03:50 AM - 03:55 AM	53.9	51.4	-	53.3	48.8	4.5
03:55 AM - 04:00 AM	53.9	51.5	-	53.2	49.6	3.6
04:00 AM - 04:05 AM	53.5	51.7	-	51.8	49.1	2.7
04:05 AM - 04:10 AM	52.8	51.1	-	50.9	49.3	1.6
04:10 AM - 04:15 AM	53.6	52.4	-	50.4	49.9	0.5
04:15 AM - 04:20 AM	53.5	51.2	-	52.6	49.7	2.9
04:20 AM - 04:25 AM	52.9	51.5	-	50.3	49.1	1.2
04:25 AM - 04:30 AM	53.6	51.6	-	52.3	49.2	3.1
04:30 AM - 04:35 AM	54.3	51.9	-	53.6	48.9	4.7
04:35 AM - 04:40 AM	55.4	51.8	-	55.9	49.5	6.4
04:40 AM - 04:45 AM	53.7	50.8	-	53.6	49.1	4.5
04:45 AM - 04:50 AM	54.2	51.2	-	54.2	49.7	4.5
04:50 AM - 04:55 AM	54.0	53.7	-	45.2	49.6	-4.4
04:55 AM - 05:00 AM	54.1	55.2	-	n/a	50.0	-
05:00 AM - 05:05 AM	52.0	54.5	-	n/a	53.0	-
05:05 AM - 05:10 AM	54.0	53.8	-	43.5	51.5	-8.0
05:10 AM - 05:15 AM	53.6	54.4	-	n/a	52.0	-
05:15 AM - 05:20 AM	54.4	54.3	-	41.0	51.4	-10.4
05:20 AM - 05:25 AM	53.0	54.9	-	n/a	52.6	-
05:25 AM - 05:30 AM	53.0	52.5	-	46.4	49.6	-3.2
05:30 AM - 05:35 AM	53.2	53.2	-	n/a	50.0	-
05:35 AM - 05:40 AM	53.3	52.9	-	45.7	49.2	-3.5
05:40 AM - 05:45 AM	54.1	56.8	-	n/a	54.4	-
05:45 AM - 05:50 AM	56.3	55.4	-	52.0	52.6	-0.6
05:50 AM - 05:55 AM	55.2	54.8	-	47.6	52.8	-5.2
05:55 AM - 06:00 AM	55.6	55.3	-	46.8	53.1	-6.3
06:00 AM - 07:00 AM	57.4	57.9	n/a	-	54.3	-
07:00 AM - 08:00 AM	58.8	57.4	53.2	-	54.4	-1.2
08:00 AM - 09:00 AM	56.5	55.4	50.0	-	52.6	-2.6
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิจารณาตรวจวัด วันที่ 08-09 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No. 2432537-7 วันที่ตรวจวัด 08-09 เมษายน 2567)
- ค่า: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or its findings may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or its findings may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdieng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdieng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964007-1

Sample No. 2432534-1
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
10:00 AM - 11:00 AM	46.4	47.8	n/a	-	-
11:00 AM - 12:00 PM	46.4	47.6	n/a	-	-
12:00 PM - 01:00 PM	48.7	48.9	n/a	-	-
01:00 PM - 02:00 PM	47.0	48.0	n/a	-	-
02:00 PM - 03:00 PM	46.4	51.2	n/a	-	-
03:00 PM - 04:00 PM	47.6	48.8	n/a	-	-
04:00 PM - 05:00 PM	48.6	53.1	n/a	-	-
05:00 PM - 06:00 PM	49.4	48.9	39.8	-	-4.2
06:00 PM - 07:00 PM	48.1	51.3	n/a	-	-
07:00 PM - 08:00 PM	47.7	48.6	n/a	-	-
08:00 PM - 09:00 PM	44.8	44.2	35.9	-	-5.4
09:00 PM - 10:00 PM	45.0	44.9	28.6	-	-12.4
10:00 PM - 10:05 PM	43.8	45.0	-	n/a	-
10:05 PM - 10:10 PM	45.1	43.3	-	43.4	3.6
10:10 PM - 10:15 PM	45.6	43.5	-	44.4	3.5
10:15 PM - 10:20 PM	46.3	43.8	-	45.7	4.6
10:20 PM - 10:25 PM	44.9	44.1	-	40.2	-0.6
10:25 PM - 10:30 PM	45.2	43.6	-	43.1	2.7
10:30 PM - 10:35 PM	44.7	43.7	-	40.8	0.1
10:35 PM - 10:40 PM	45.6	42.8	-	45.4	4.9
10:40 PM - 10:45 PM	44.7	43.2	-	42.4	1.8
10:45 PM - 10:50 PM	44.8	42.3	-	44.2	3.8
10:50 PM - 10:55 PM	43.7	43.1	-	37.8	-3.1
10:55 PM - 11:00 PM	44.1	56.9	-	n/a	-
11:00 PM - 11:05 PM	43.8	53.8	-	n/a	-
11:05 PM - 11:10 PM	44.1	41.4	-	43.8	4.0
11:10 PM - 11:15 PM	45.9	41.3	-	47.1	7.6
11:15 PM - 11:20 PM	45.9	40.9	-	47.2	7.6
11:20 PM - 11:25 PM	43.5	42.6	-	39.2	-0.6
11:25 PM - 11:30 PM	42.9	42.7	-	32.4	-7.1
11:30 PM - 11:35 PM	43.2	40.6	-	42.7	3.9
11:35 PM - 11:40 PM	44.5	52.0	-	n/a	-
11:40 PM - 11:45 PM	43.8	52.4	-	n/a	-
11:45 PM - 11:50 PM	43.3	43.7	-	n/a	-
11:50 PM - 11:55 PM	45.2	41.7	-	45.6	5.8
11:55 PM - 12:00 AM	44.9	41.0	-	45.6	5.8
12:00 AM - 12:05 AM	45.1	41.5	-	45.6	6.1
12:05 AM - 12:10 AM	43.0	41.0	-	41.7	2.0
12:10 AM - 12:15 AM	42.8	41.9	-	38.5	-0.9
12:15 AM - 12:20 AM	43.2	40.6	-	42.7	3.3

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964007-1

Sample No. 2432534-1
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
12:20 AM - 12:25 AM	43.0	42.3	-	37.7	-1.5
12:25 AM - 12:30 AM	43.2	40.7	-	42.6	3.8
12:30 AM - 12:35 AM	42.8	41.6	-	39.6	0.2
12:35 AM - 12:40 AM	43.7	41.8	-	42.2	3.1
12:40 AM - 12:45 AM	41.9	44.0	-	n/a	-
12:45 AM - 12:50 AM	42.4	43.9	-	n/a	-
12:50 AM - 12:55 AM	42.6	42.4	-	32.1	-7.9
12:55 AM - 01:00 AM	45.1	41.1	-	45.9	6.6
01:00 AM - 01:05 AM	47.3	41.6	-	48.9	9.6
01:05 AM - 01:10 AM	46.4	41.1	-	47.9	8.3
01:10 AM - 01:15 AM	45.3	41.8	-	45.7	5.9
01:15 AM - 01:20 AM	45.0	41.2	-	45.7	6.1
01:20 AM - 01:25 AM	45.0	43.9	-	41.5	2.9
01:25 AM - 01:30 AM	44.7	40.6	-	45.6	7.5
01:30 AM - 01:35 AM	42.8	40.9	-	41.3	2.6
01:35 AM - 01:40 AM	43.6	42.0	-	41.5	2.7
01:40 AM - 01:45 AM	43.1	39.7	-	43.4	4.8
01:45 AM - 01:50 AM	41.2	41.1	-	27.8	-10.7
01:50 AM - 01:55 AM	42.1	39.7	-	41.4	2.6
01:55 AM - 02:00 AM	42.1	39.4	-	41.8	4.2
02:00 AM - 02:05 AM	42.4	38.9	-	42.8	5.2
02:05 AM - 02:10 AM	41.1	39.6	-	38.8	1.4
02:10 AM - 02:15 AM	40.0	39.0	-	36.1	-1.6
02:15 AM - 02:20 AM	38.6	40.8	-	n/a	-
02:20 AM - 02:25 AM	40.5	40.3	-	30.0	-8.8
02:25 AM - 02:30 AM	39.4	40.1	-	n/a	-
02:30 AM - 02:35 AM	40.7	43.2	-	n/a	-
02:35 AM - 02:40 AM	40.4	42.8	-	n/a	-
02:40 AM - 02:45 AM	39.7	39.5	-	29.2	-9.2
02:45 AM - 02:50 AM	43.8	42.5	-	40.9	1.4
02:50 AM - 02:55 AM	44.9	41.4	-	45.3	6.0
02:55 AM - 03:00 AM	40.3	40.1	-	29.8	-8.9
03:00 AM - 03:05 AM	40.9	40.2	-	35.6	-2.8
03:05 AM - 03:10 AM	43.4	40.2	-	43.6	5.1
03:10 AM - 03:15 AM	40.7	39.1	-	38.6	0.8
03:15 AM - 03:20 AM	40.5	44.3	-	n/a	-
03:20 AM - 03:25 AM	40.9	39.7	-	37.7	-0.2
03:25 AM - 03:30 AM	39.4	40.0	-	n/a	-
03:30 AM - 03:35 AM	41.6	39.1	-	41.0	3.2
03:35 AM - 03:40 AM	42.7	41.6	-	39.2	0.3

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not manipulated except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not manipulated except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964007-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432534-1
Parameter : เสียงรบกวน
Location : ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120938

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการ	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	41.4	40.0	-	38.8	38.3	0.5
03:45 AM - 03:50 AM	40.9	41.2	-	n/a	38.4	-
03:50 AM - 03:55 AM	41.4	39.3	-	40.2	38.2	2.0
03:55 AM - 04:00 AM	42.3	39.7	-	41.8	38.0	3.8
04:00 AM - 04:05 AM	42.2	40.1	-	41.0	38.7	2.3
04:05 AM - 04:10 AM	40.6	40.6	-	n/a	38.7	-
04:10 AM - 04:15 AM	40.7	41.4	-	n/a	38.9	-
04:15 AM - 04:20 AM	40.0	43.3	-	n/a	39.8	-
04:20 AM - 04:25 AM	40.4	42.3	-	n/a	39.9	-
04:25 AM - 04:30 AM	40.7	44.6	-	n/a	39.8	-
04:30 AM - 04:35 AM	42.3	42.9	-	n/a	40.3	-
04:35 AM - 04:40 AM	42.8	42.9	-	n/a	40.0	-
04:40 AM - 04:45 AM	42.1	44.5	-	n/a	40.4	-
04:45 AM - 04:50 AM	44.3	42.2	-	42.2	40.2	2.0
04:50 AM - 04:55 AM	43.2	42.5	-	37.9	40.0	-2.1
04:55 AM - 05:00 AM	44.9	43.7	-	41.7	39.8	1.9
05:00 AM - 05:05 AM	42.5	43.0	-	n/a	39.9	-
05:05 AM - 05:10 AM	43.3	44.0	-	n/a	40.5	-
05:10 AM - 05:15 AM	43.5	42.8	-	38.2	40.1	-1.9
05:15 AM - 05:20 AM	44.5	43.4	-	41.0	40.4	0.6
05:20 AM - 05:25 AM	44.7	46.2	-	n/a	41.4	-
05:25 AM - 05:30 AM	43.9	47.6	-	n/a	42.2	-
05:30 AM - 05:35 AM	48.8	43.7	-	50.2	41.3	8.9
05:35 AM - 05:40 AM	49.6	45.0	-	50.8	41.8	9.0
05:40 AM - 05:45 AM	48.4	46.8	-	46.3	42.8	3.5
05:45 AM - 05:50 AM	49.3	46.9	-	48.6	43.3	5.3
05:50 AM - 05:55 AM	49.9	49.7	-	39.4	44.1	-4.7
05:55 AM - 06:00 AM	48.2	46.9	-	45.3	44.0	1.3
06:00 AM - 07:00 AM	49.4	49.6	n/a	-	44.3	-
07:00 AM - 08:00 AM	49.6	49.4	36.1	-	44.8	-8.7
08:00 AM - 09:00 AM	49.3	48.4	42.0	-	43.8	-1.8
09:00 AM - 10:00 AM	48.1	49.0	n/a	-	42.2	-
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง "การตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567"
- ประกาศกระทรวงอุตสาหกรรม เรื่อง "กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548"
- ประกาศกระทรวงสาธารณสุข เรื่อง "กำหนดค่ามาตรฐานและขีดจำกัดของอินทรีดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561"

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 02-03 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรมการ (Sample No.2432543-1 วันที่ตรวจวัด 02-03 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรมการ

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964008-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432534-2
Parameter : เสียงรบกวน
Location : ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120938

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการ	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	46.5	46.4	30.1	-	41.4	-11.3
11:00 AM - 12:00 PM	48.2	48.0	34.7	-	42.7	-8.0
12:00 PM - 01:00 PM	46.4	47.3	n/a	-	41.2	-
01:00 PM - 02:00 PM	47.4	47.6	n/a	-	42.7	-
02:00 PM - 03:00 PM	46.2	47.5	n/a	-	41.9	-
03:00 PM - 04:00 PM	48.2	48.0	34.7	-	41.9	-7.2
04:00 PM - 05:00 PM	49.5	49.6	n/a	-	44.7	-
05:00 PM - 06:00 PM	49.4	48.4	42.5	-	43.0	-0.5
06:00 PM - 07:00 PM	47.5	49.2	n/a	-	46.3	-
07:00 PM - 08:00 PM	46.5	45.6	39.2	-	42.8	-3.6
08:00 PM - 09:00 PM	45.4	45.4	n/a	-	42.1	-
09:00 PM - 10:00 PM	45.0	45.1	n/a	-	41.4	-
10:00 PM - 10:05 PM	44.7	45.6	-	n/a	42.1	-
10:05 PM - 10:10 PM	45.1	44.4	-	39.8	41.9	-2.1
10:10 PM - 10:15 PM	42.3	45.2	-	n/a	41.6	-
10:15 PM - 10:20 PM	44.8	45.3	-	n/a	41.2	-
10:20 PM - 10:25 PM	42.9	43.8	-	n/a	40.7	-
10:25 PM - 10:30 PM	44.6	45.0	-	n/a	40.5	-
10:30 PM - 10:35 PM	44.2	44.0	-	33.7	40.7	-7.0
10:35 PM - 10:40 PM	44.7	45.5	-	n/a	42.3	-
10:40 PM - 10:45 PM	42.8	45.5	-	n/a	43.3	-
10:45 PM - 10:50 PM	42.8	44.6	-	n/a	40.9	-
10:50 PM - 10:55 PM	43.0	42.5	-	36.4	39.8	-3.4
10:55 PM - 11:00 PM	43.9	41.7	-	42.9	39.8	3.1
11:00 PM - 11:05 PM	42.0	42.1	-	n/a	39.6	-
11:05 PM - 11:10 PM	41.6	43.5	-	n/a	40.2	-
11:10 PM - 11:15 PM	42.3	42.0	-	33.5	39.4	-5.9
11:15 PM - 11:20 PM	42.0	41.1	-	37.7	39.2	-1.5
11:20 PM - 11:25 PM	42.8	42.3	-	36.2	39.1	-2.9
11:25 PM - 11:30 PM	42.8	42.1	-	37.5	39.7	-2.2
11:30 PM - 11:35 PM	45.7	43.1	-	45.2	39.9	5.3
11:35 PM - 11:40 PM	44.0	42.8	-	40.8	40.0	0.8
11:40 PM - 11:45 PM	43.8	45.4	-	n/a	40.0	-
11:45 PM - 11:50 PM	44.6	43.3	-	41.7	40.3	1.4
11:50 PM - 11:55 PM	47.2	43.2	-	48.0	40.2	7.8
11:55 PM - 12:00 AM	45.8	43.7	-	44.6	40.8	3.8
12:00 AM - 12:05 AM	45.9	46.4	-	n/a	40.8	-
12:05 AM - 12:10 AM	45.5	45.7	-	n/a	41.7	-
12:10 AM - 12:15 AM	46.0	46.5	-	n/a	43.8	-
12:15 AM - 12:20 AM	47.0	45.8	-	43.8	41.0	2.8

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964008-1

Page 2 of 3

Sample No. 2432534-2
Parameter เสียงรบกวน
Location อุทยานบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกรรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:20 AM - 12:25 AM	47.6	47.6	-	n/a	43.8	-
12:25 AM - 12:30 AM	46.3	47.7	-	n/a	44.3	-
12:30 AM - 12:35 AM	46.2	48.0	-	n/a	45.2	-
12:35 AM - 12:40 AM	45.9	47.7	-	n/a	44.9	-
12:40 AM - 12:45 AM	45.0	46.9	-	n/a	45.2	-
12:45 AM - 12:50 AM	45.1	46.7	-	n/a	44.4	-
12:50 AM - 12:55 AM	45.4	45.9	-	n/a	43.6	-
12:55 AM - 01:00 AM	49.4	46.3	-	49.5	43.8	5.7
01:00 AM - 01:05 AM	47.9	47.0	-	43.6	39.7	3.9
01:05 AM - 01:10 AM	45.8	51.1	-	n/a	50.2	-
01:10 AM - 01:15 AM	47.8	50.0	-	n/a	46.4	-
01:15 AM - 01:20 AM	47.8	46.0	-	46.1	43.1	3.0
01:20 AM - 01:25 AM	47.6	45.9	-	45.7	43.1	2.6
01:25 AM - 01:30 AM	44.6	46.1	-	n/a	43.7	-
01:30 AM - 01:35 AM	43.4	45.5	-	n/a	43.4	-
01:35 AM - 01:40 AM	43.7	45.3	-	n/a	43.4	-
01:40 AM - 01:45 AM	43.7	44.0	-	n/a	41.5	-
01:45 AM - 01:50 AM	44.0	44.4	-	n/a	42.3	-
01:50 AM - 01:55 AM	43.2	44.8	-	n/a	42.8	-
01:55 AM - 02:00 AM	44.4	44.6	-	n/a	41.2	-
02:00 AM - 02:05 AM	43.2	43.4	-	n/a	41.1	-
02:05 AM - 02:10 AM	43.2	43.9	-	n/a	40.3	-
02:10 AM - 02:15 AM	44.1	41.6	-	43.5	38.0	5.5
02:15 AM - 02:20 AM	44.0	42.5	-	41.7	38.9	2.8
02:20 AM - 02:25 AM	41.7	45.8	-	n/a	39.5	-
02:25 AM - 02:30 AM	43.4	43.5	-	n/a	39.4	-
02:30 AM - 02:35 AM	42.2	40.4	-	40.5	38.6	1.9
02:35 AM - 02:40 AM	42.7	46.1	-	n/a	39.1	-
02:40 AM - 02:45 AM	42.3	41.7	-	36.4	38.6	-2.2
02:45 AM - 02:50 AM	41.3	41.7	-	n/a	39.3	-
02:50 AM - 02:55 AM	41.6	40.5	-	38.1	38.6	-0.5
02:55 AM - 03:00 AM	41.5	39.8	-	39.6	38.2	1.4
03:00 AM - 03:05 AM	41.4	40.1	-	38.5	38.3	0.2
03:05 AM - 03:10 AM	41.6	39.7	-	40.1	38.4	1.7
03:10 AM - 03:15 AM	41.8	40.0	-	40.1	38.2	1.9
03:15 AM - 03:20 AM	42.0	40.0	-	40.7	38.7	2.0
03:20 AM - 03:25 AM	40.7	40.2	-	34.1	38.7	-4.6
03:25 AM - 03:30 AM	42.0	41.2	-	37.3	39.1	-1.8
03:30 AM - 03:35 AM	43.1	40.8	-	42.2	39.1	3.1
03:35 AM - 03:40 AM	42.7	41.2	-	40.4	38.7	1.7

The above results are valid only for the analysed (tested sample(s)) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Bortrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964008-1

Page 3 of 3

Sample No. 2432534-2
Parameter เสียงรบกวน
Location อุทยานบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	42.9	42.0	-	38.6	38.8	-0.2
03:45 AM - 03:50 AM	43.2	41.5	-	41.3	39.1	2.2
03:50 AM - 03:55 AM	42.3	42.5	-	n/a	39.0	-
03:55 AM - 04:00 AM	41.8	43.6	-	n/a	39.6	-
04:00 AM - 04:05 AM	42.0	41.1	-	37.7	38.9	-1.2
04:05 AM - 04:10 AM	42.9	43.4	-	n/a	39.1	-
04:10 AM - 04:15 AM	45.7	41.5	-	46.6	39.2	7.4
04:15 AM - 04:20 AM	42.7	43.4	-	n/a	38.6	-
04:20 AM - 04:25 AM	44.0	44.5	-	n/a	39.3	-
04:25 AM - 04:30 AM	43.5	42.1	-	40.9	39.6	1.3
04:30 AM - 04:35 AM	42.7	43.5	-	n/a	39.6	-
04:35 AM - 04:40 AM	42.5	43.8	-	n/a	39.9	-
04:40 AM - 04:45 AM	43.2	43.1	-	29.8	39.1	-9.3
04:45 AM - 04:50 AM	44.7	43.3	-	42.1	39.0	3.1
04:50 AM - 04:55 AM	45.2	44.0	-	42.0	40.1	1.9
04:55 AM - 05:00 AM	48.4	44.5	-	49.1	41.2	7.9
05:00 AM - 05:05 AM	49.6	45.5	-	50.5	41.6	8.9
05:05 AM - 05:10 AM	49.9	48.4	-	47.6	42.7	4.9
05:10 AM - 05:15 AM	49.5	47.8	-	47.6	44.0	3.6
05:15 AM - 05:20 AM	48.7	46.5	-	47.7	42.5	5.2
05:20 AM - 05:25 AM	47.1	48.0	-	n/a	44.0	-
05:25 AM - 05:30 AM	47.9	46.5	-	45.3	43.5	1.8
05:30 AM - 05:35 AM	49.4	46.9	-	48.8	42.5	6.3
05:35 AM - 05:40 AM	48.3	47.4	-	44.0	44.0	0.0
05:40 AM - 05:45 AM	46.7	48.3	-	n/a	44.6	-
05:45 AM - 05:50 AM	49.1	48.7	-	41.5	44.6	-3.1
05:50 AM - 05:55 AM	48.6	47.2	-	46.0	43.7	2.3
05:55 AM - 06:00 AM	49.5	49.9	-	n/a	44.4	-
06:00 AM - 07:00 AM	49.0	49.5	n/a	-	44.1	-
07:00 AM - 08:00 AM	49.2	50.8	n/a	-	43.9	-
08:00 AM - 09:00 AM	47.2	47.5	n/a	-	42.8	-
09:00 AM - 10:00 AM	46.1	46.1	n/a	-	41.6	-

ค่าเฉลี่ย

≤ 10

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิจารณาตรวจวัด วันที่ 03-04 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432543-2 วันที่ตรวจวัด 03-04 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analysed (tested sample(s)) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Bortrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432534-3
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964009-1

Page 1 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	46.7	46.5	33.2	-	41.5	-8.3
11:00 AM - 12:00 PM	45.5	47.4	n/a	-	43.0	-
12:00 PM - 01:00 PM	49.1	47.6	43.8	-	43.4	0.4
01:00 PM - 02:00 PM	45.5	46.0	n/a	-	41.0	-
02:00 PM - 03:00 PM	46.2	47.1	n/a	-	41.8	-
03:00 PM - 04:00 PM	47.1	47.0	30.7	-	42.0	-11.3
04:00 PM - 05:00 PM	47.0	47.2	n/a	-	43.6	-
05:00 PM - 06:00 PM	48.5	47.2	42.6	-	43.8	-1.2
06:00 PM - 07:00 PM	49.1	49.0	32.7	-	43.6	-10.9
07:00 PM - 08:00 PM	45.5	47.1	n/a	-	44.1	-
08:00 PM - 09:00 PM	45.1	46.5	n/a	-	43.1	-
09:00 PM - 10:00 PM	45.4	46.2	n/a	-	42.8	-
10:00 PM - 10:05 PM	45.0	47.7	-	n/a	42.8	-
10:05 PM - 10:10 PM	45.3	47.2	-	n/a	45.0	-
10:10 PM - 10:15 PM	47.1	47.9	-	n/a	46.1	-
10:15 PM - 10:20 PM	50.4	48.2	-	49.4	45.5	3.9
10:20 PM - 10:25 PM	45.6	50.4	-	n/a	46.8	-
10:25 PM - 10:30 PM	47.2	44.5	-	46.9	43.9	3.0
10:30 PM - 10:35 PM	50.1	47.1	-	50.1	43.0	7.1
10:35 PM - 10:40 PM	48.8	48.4	-	41.2	45.7	-4.5
10:40 PM - 10:45 PM	46.9	48.5	-	n/a	46.2	-
10:45 PM - 10:50 PM	45.7	44.8	-	41.4	41.8	-0.4
10:50 PM - 10:55 PM	48.2	45.2	-	48.2	41.4	6.8
10:55 PM - 11:00 PM	47.5	49.0	-	n/a	44.9	-
11:00 PM - 11:05 PM	52.9	51.7	-	49.7	50.9	-1.2
11:05 PM - 11:10 PM	51.0	50.3	-	45.7	49.7	-4.0
11:10 PM - 11:15 PM	48.7	57.1	-	n/a	46.9	-
11:15 PM - 11:20 PM	51.4	51.0	-	43.8	47.3	-3.5
11:20 PM - 11:25 PM	52.0	50.4	-	49.9	46.8	3.1
11:25 PM - 11:30 PM	48.0	47.8	-	37.5	37.6	-0.1
11:30 PM - 11:35 PM	50.4	48.7	-	48.5	46.7	1.8
11:35 PM - 11:40 PM	51.8	51.1	-	46.5	50.3	-3.8
11:40 PM - 11:45 PM	49.1	51.1	-	n/a	37.9	-
11:45 PM - 11:50 PM	49.2	49.4	-	n/a	46.1	-
11:50 PM - 11:55 PM	51.7	50.4	-	48.8	48.4	0.4
11:55 PM - 12:00 AM	49.3	50.3	-	n/a	48.5	-
12:00 AM - 12:05 AM	48.6	54.3	-	n/a	48.2	-
12:05 AM - 12:10 AM	48.4	45.2	-	48.6	41.4	7.2
12:10 AM - 12:15 AM	48.4	48.6	-	n/a	46.7	-
12:15 AM - 12:20 AM	49.6	48.3	-	46.7	46.3	0.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of the report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432534-3
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964009-1

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:20 AM - 12:25 AM	50.5	52.3	-	n/a	45.7	-
12:25 AM - 12:30 AM	47.9	54.4	-	n/a	45.3	-
12:30 AM - 12:35 AM	47.4	48.7	-	n/a	46.6	-
12:35 AM - 12:40 AM	47.6	47.5	-	34.2	45.6	-11.4
12:40 AM - 12:45 AM	47.3	47.4	-	n/a	45.1	-
12:45 AM - 12:50 AM	48.2	48.3	-	n/a	46.3	-
12:50 AM - 12:55 AM	46.7	46.9	-	n/a	44.5	-
12:55 AM - 01:00 AM	52.1	51.9	-	41.6	49.1	-7.5
01:00 AM - 01:05 AM	49.8	47.9	-	48.3	45.4	2.9
01:05 AM - 01:10 AM	46.3	47.0	-	n/a	44.1	-
01:10 AM - 01:15 AM	45.7	45.3	-	38.1	41.5	-3.4
01:15 AM - 01:20 AM	47.0	47.3	-	n/a	44.8	-
01:20 AM - 01:25 AM	45.1	47.2	-	n/a	44.4	-
01:25 AM - 01:30 AM	49.9	47.6	-	49.0	44.2	4.8
01:30 AM - 01:35 AM	49.2	47.4	-	47.5	45.1	2.4
01:35 AM - 01:40 AM	45.9	45.7	-	35.4	43.1	-7.7
01:40 AM - 01:45 AM	44.2	44.2	-	n/a	39.7	-
01:45 AM - 01:50 AM	47.6	47.0	-	41.7	44.1	-2.4
01:50 AM - 01:55 AM	49.8	48.2	-	47.7	45.4	2.3
01:55 AM - 02:00 AM	45.8	45.1	-	40.5	43.1	-2.6
02:00 AM - 02:05 AM	43.6	40.9	-	43.3	38.7	4.6
02:05 AM - 02:10 AM	41.9	40.4	-	39.6	38.7	0.9
02:10 AM - 02:15 AM	40.7	39.9	-	36.0	38.8	-2.8
02:15 AM - 02:20 AM	40.5	44.2	-	n/a	39.7	-
02:20 AM - 02:25 AM	39.8	41.4	-	n/a	39.8	-
02:25 AM - 02:30 AM	40.3	45.8	-	n/a	40.3	-
02:30 AM - 02:35 AM	43.0	47.0	-	n/a	40.8	-
02:35 AM - 02:40 AM	41.8	47.0	-	n/a	39.8	-
02:40 AM - 02:45 AM	42.0	40.7	-	39.1	39.7	-0.6
02:45 AM - 02:50 AM	43.3	42.3	-	39.4	39.8	-0.4
02:50 AM - 02:55 AM	42.5	43.3	-	n/a	40.0	-
02:55 AM - 03:00 AM	39.7	41.8	-	n/a	39.3	-
03:00 AM - 03:05 AM	42.5	41.0	-	40.2	39.4	0.8
03:05 AM - 03:10 AM	42.1	40.8	-	39.2	39.7	-0.5
03:10 AM - 03:15 AM	41.6	40.1	-	39.3	37.8	1.5
03:15 AM - 03:20 AM	39.9	39.8	-	26.5	38.2	-11.7
03:20 AM - 03:25 AM	40.1	40.3	-	n/a	38.8	-
03:25 AM - 03:30 AM	39.8	40.7	-	n/a	39.7	-
03:30 AM - 03:35 AM	40.4	39.8	-	34.5	38.2	-3.7
03:35 AM - 03:40 AM	45.8	44.3	-	43.5	43.2	0.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of the report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964009-1

Page 3 of 3

Sample No. 2432534-3
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	46.3	44.8	-	44.0	43.3	0.7
03:45 AM - 03:50 AM	39.9	39.7	-	29.4	38.2	-8.8
03:50 AM - 03:55 AM	39.6	39.4	-	29.1	38.1	-9.0
03:55 AM - 04:00 AM	39.9	39.9	-	n/a	38.6	-
04:00 AM - 04:05 AM	39.4	39.0	-	31.8	37.4	-5.6
04:05 AM - 04:10 AM	39.7	38.8	-	35.4	37.7	-2.3
04:10 AM - 04:15 AM	40.1	38.1	-	38.8	35.8	3.0
04:15 AM - 04:20 AM	50.6	55.4	-	n/a	38.8	-
04:20 AM - 04:25 AM	52.1	51.1	-	48.2	47.2	1.0
04:25 AM - 04:30 AM	52.0	54.8	-	n/a	44.6	-
04:30 AM - 04:35 AM	40.9	42.1	-	n/a	39.7	-
04:35 AM - 04:40 AM	43.5	42.4	-	40.0	39.8	0.2
04:40 AM - 04:45 AM	41.6	45.3	-	n/a	40.4	-
04:45 AM - 04:50 AM	42.6	42.2	-	35.0	39.9	-4.9
04:50 AM - 04:55 AM	42.9	43.1	-	n/a	40.1	-
04:55 AM - 05:00 AM	43.6	44.2	-	n/a	40.2	-
05:00 AM - 05:05 AM	42.3	42.5	-	n/a	39.7	-
05:05 AM - 05:10 AM	43.8	44.1	-	n/a	40.2	-
05:10 AM - 05:15 AM	43.3	43.1	-	32.8	40.5	-7.7
05:15 AM - 05:20 AM	43.7	43.6	-	30.3	41.4	-11.1
05:20 AM - 05:25 AM	43.5	44.6	-	n/a	41.3	-
05:25 AM - 05:30 AM	43.5	47.3	-	n/a	41.8	-
05:30 AM - 05:35 AM	44.2	42.9	-	41.3	39.9	1.4
05:35 AM - 05:40 AM	45.3	43.6	-	43.4	40.1	3.3
05:40 AM - 05:45 AM	52.7	48.0	-	53.9	45.2	8.7
05:45 AM - 05:50 AM	53.6	51.9	-	51.7	49.1	2.6
05:50 AM - 05:55 AM	50.3	46.9	-	50.6	43.3	7.3
05:55 AM - 06:00 AM	48.2	49.7	-	n/a	43.3	-
06:00 AM - 07:00 AM	48.8	50.1	n/a	-	43.9	-
07:00 AM - 08:00 AM	50.2	50.6	n/a	-	44.3	-
08:00 AM - 09:00 AM	48.4	48.7	n/a	-	42.4	-
09:00 AM - 10:00 AM	45.2	45.4	n/a	-	40.2	-

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567
- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานเสียงจากแหล่งกำเนิดเสียงจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด หากตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432543-3 วันที่ตรวจวัด 04-05 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phraksaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964010-1

Page 1 of 3

Sample No. 2432534-4
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	46.8	47.9	n/a	-	41.4	-
11:00 AM - 12:00 PM	49.8	50.6	n/a	-	44.4	-
12:00 PM - 01:00 PM	49.6	50.9	n/a	-	41.1	-
01:00 PM - 02:00 PM	48.8	50.3	n/a	-	42.1	-
02:00 PM - 03:00 PM	44.7	45.4	n/a	-	39.9	-
03:00 PM - 04:00 PM	46.7	48.2	n/a	-	43.6	-
04:00 PM - 05:00 PM	50.4	49.8	41.5	-	45.3	-3.8
05:00 PM - 06:00 PM	48.2	48.6	n/a	-	42.9	-
06:00 PM - 07:00 PM	55.2	54.4	47.5	-	49.3	-1.8
07:00 PM - 08:00 PM	45.1	46.4	n/a	-	43.8	-
08:00 PM - 09:00 PM	46.0	45.3	37.7	-	41.4	-3.7
09:00 PM - 10:00 PM	44.0	43.5	34.4	-	39.9	-5.5
10:00 PM - 10:05 PM	45.5	46.8	-	n/a	39.2	-
10:05 PM - 10:10 PM	45.0	42.4	-	44.5	39.2	5.3
10:10 PM - 10:15 PM	46.9	43.4	-	47.3	40.3	7.0
10:15 PM - 10:20 PM	44.8	42.7	-	43.6	40.9	2.7
10:20 PM - 10:25 PM	42.9	43.1	-	n/a	40.2	-
10:25 PM - 10:30 PM	42.4	42.4	-	n/a	38.8	-
10:30 PM - 10:35 PM	43.1	42.7	-	35.5	39.6	-4.1
10:35 PM - 10:40 PM	44.7	43.3	-	42.1	38.7	3.4
10:40 PM - 10:45 PM	42.7	41.0	-	40.8	38.8	2.0
10:45 PM - 10:50 PM	41.7	44.8	-	n/a	39.8	-
10:50 PM - 10:55 PM	43.3	42.2	-	39.8	39.1	0.7
10:55 PM - 11:00 PM	44.3	42.0	-	43.4	39.5	3.9
11:00 PM - 11:05 PM	42.3	41.7	-	36.4	39.1	-2.7
11:05 PM - 11:10 PM	41.1	41.3	-	n/a	39.8	-
11:10 PM - 11:15 PM	42.1	46.0	-	n/a	40.5	-
11:15 PM - 11:20 PM	45.7	43.2	-	45.1	40.3	4.8
11:20 PM - 11:25 PM	44.9	42.7	-	43.9	39.4	4.5
11:25 PM - 11:30 PM	44.0	41.9	-	42.8	39.7	3.1
11:30 PM - 11:35 PM	43.4	42.6	-	38.7	38.8	-0.1
11:35 PM - 11:40 PM	42.4	42.2	-	31.9	39.5	-7.6
11:40 PM - 11:45 PM	43.3	40.3	-	43.3	38.9	4.4
11:45 PM - 11:50 PM	42.0	40.8	-	38.8	39.3	-0.5
11:50 PM - 11:55 PM	40.6	42.9	-	n/a	40.4	-
11:55 PM - 12:00 AM	42.5	45.1	-	n/a	42.4	-
12:00 AM - 12:05 AM	46.9	41.6	-	48.4	39.4	9.0
12:05 AM - 12:10 AM	45.0	43.2	-	43.3	40.6	2.7
12:10 AM - 12:15 AM	43.1	43.8	-	n/a	41.6	-
12:15 AM - 12:20 AM	42.9	44.2	-	n/a	40.1	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phraksaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964010-1

Page 2 of 3

Sample No. 2432534-4
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:20 AM - 12:25 AM	44.6	41.8	-	44.4	39.7	4.7
12:25 AM - 12:30 AM	39.4	44.3	-	41.3	41.3	-
12:30 AM - 12:35 AM	43.2	41.4	-	41.5	39.0	2.5
12:35 AM - 12:40 AM	40.7	41.3	-	41.3	39.2	-
12:40 AM - 12:45 AM	40.5	42.2	-	41.3	40.2	-
12:45 AM - 12:50 AM	40.2	42.2	-	41.3	40.1	-
12:50 AM - 12:55 AM	40.7	41.6	-	41.3	40.0	-
12:55 AM - 01:00 AM	40.2	44.3	-	41.3	40.6	-
01:00 AM - 01:05 AM	42.6	43.2	-	41.3	40.1	-
01:05 AM - 01:10 AM	45.0	43.1	-	43.5	39.5	4.0
01:10 AM - 01:15 AM	42.5	41.0	-	40.2	38.3	1.9
01:15 AM - 01:20 AM	43.7	39.7	-	44.5	38.3	6.2
01:20 AM - 01:25 AM	40.2	39.8	-	32.6	38.6	-6.0
01:25 AM - 01:30 AM	40.5	39.3	-	37.3	38.1	-0.8
01:30 AM - 01:35 AM	40.1	39.8	-	31.3	38.4	-7.1
01:35 AM - 01:40 AM	39.7	43.8	-	41.3	40.5	-
01:40 AM - 01:45 AM	41.4	41.9	-	41.3	40.1	-
01:45 AM - 01:50 AM	50.5	47.4	-	50.6	42.9	7.7
01:50 AM - 01:55 AM	50.9	50.7	-	40.4	49.2	-8.8
01:55 AM - 02:00 AM	44.3	41.9	-	43.6	39.8	3.8
02:00 AM - 02:05 AM	42.0	41.4	-	36.1	39.5	-3.4
02:05 AM - 02:10 AM	40.6	41.2	-	41.3	39.8	-
02:10 AM - 02:15 AM	40.9	41.3	-	41.3	40.1	-
02:15 AM - 02:20 AM	40.2	44.6	-	41.3	39.8	-
02:20 AM - 02:25 AM	40.8	41.2	-	41.3	39.1	-
02:25 AM - 02:30 AM	45.7	39.5	-	47.5	37.9	9.6
02:30 AM - 02:35 AM	40.1	39.9	-	29.6	38.5	-8.9
02:35 AM - 02:40 AM	40.1	40.3	-	41.3	38.3	-
02:40 AM - 02:45 AM	40.3	40.3	-	41.3	39.0	-
02:45 AM - 02:50 AM	39.7	40.9	-	41.3	39.0	-
02:50 AM - 02:55 AM	39.6	42.2	-	41.3	39.6	-
02:55 AM - 03:00 AM	40.7	41.6	-	41.3	39.9	-
03:00 AM - 03:05 AM	42.7	41.5	-	39.5	39.8	-0.3
03:05 AM - 03:10 AM	41.1	41.2	-	41.3	39.8	-
03:10 AM - 03:15 AM	41.0	41.7	-	41.3	38.8	-
03:15 AM - 03:20 AM	41.5	39.7	-	39.8	38.4	1.4
03:20 AM - 03:25 AM	40.1	40.6	-	41.3	39.4	-
03:25 AM - 03:30 AM	40.2	41.1	-	41.3	39.4	-
03:30 AM - 03:35 AM	41.1	40.7	-	33.5	39.3	-5.8
03:35 AM - 03:40 AM	40.7	41.2	-	41.3	39.3	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 - 1 Maenam Khu A. Phrakdeang Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964010-1

Page 3 of 3

Sample No. 2432534-4
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	41.0	41.0	-	41.0	38.6	-
03:45 AM - 03:50 AM	40.3	40.5	-	41.0	39.0	-
03:50 AM - 03:55 AM	41.3	42.4	-	41.0	38.8	-
03:55 AM - 04:00 AM	41.6	41.0	-	35.7	39.1	-3.4
04:00 AM - 04:05 AM	41.5	41.5	-	41.0	39.7	-
04:05 AM - 04:10 AM	41.7	42.4	-	41.0	39.5	-
04:10 AM - 04:15 AM	42.7	41.4	-	39.8	38.9	0.9
04:15 AM - 04:20 AM	42.0	41.2	-	37.3	38.6	-1.3
04:20 AM - 04:25 AM	41.8	45.3	-	41.0	39.4	-
04:25 AM - 04:30 AM	45.9	43.1	-	45.7	39.5	6.2
04:30 AM - 04:35 AM	42.0	44.8	-	41.0	40.2	-
04:35 AM - 04:40 AM	43.3	42.8	-	36.7	39.8	-3.1
04:40 AM - 04:45 AM	45.0	45.1	-	41.0	40.2	-
04:45 AM - 04:50 AM	45.3	43.4	-	43.8	40.0	3.8
04:50 AM - 04:55 AM	42.9	43.7	-	41.0	40.6	-
04:55 AM - 05:00 AM	44.4	45.3	-	41.0	41.9	-
05:00 AM - 05:05 AM	44.9	43.1	-	43.2	39.5	3.7
05:05 AM - 05:10 AM	53.4	53.7	-	41.0	48.8	-
05:10 AM - 05:15 AM	53.8	52.3	-	51.5	49.5	2.0
05:15 AM - 05:20 AM	49.2	47.1	-	48.0	43.5	4.5
05:20 AM - 05:25 AM	46.8	47.7	-	41.0	43.3	-
05:25 AM - 05:30 AM	48.0	48.5	-	41.0	43.4	-
05:30 AM - 05:35 AM	48.5	46.7	-	46.8	43.2	3.6
05:35 AM - 05:40 AM	46.7	48.3	-	41.0	42.8	-
05:40 AM - 05:45 AM	48.5	49.5	-	41.0	43.2	-
05:45 AM - 05:50 AM	48.6	47.5	-	45.1	42.9	2.2
05:50 AM - 05:55 AM	47.4	48.3	-	41.0	43.3	-
05:55 AM - 06:00 AM	47.6	48.7	-	41.0	43.6	-
06:00 AM - 07:00 AM	48.2	49.1	41.0	-	44.1	-
07:00 AM - 08:00 AM	48.3	48.1	34.8	-	43.9	-9.1
08:00 AM - 09:00 AM	45.6	46.3	-	-	41.3	-
09:00 AM - 10:00 AM	46.3	47.0	41.0	-	41.1	-

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ที่ทำการวัด วันที่ 05-06 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432534-4 วันที่ตรวจวัด 05-06 เมษายน 2567)
- ค่า: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดมีการรบกวนระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 - 1 Maenam Khu A. Phrakdeang Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964011-1

Page 1 of 3

Sample No. 2432534-5
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	46.1	46.7	n/a	-	41.8	-
11:00 AM - 12:00 PM	46.4	46.8	n/a	-	41.8	-
12:00 PM - 01:00 PM	47.1	47.3	n/a	-	42.5	-
01:00 PM - 02:00 PM	47.6	50.5	n/a	-	43.5	-
02:00 PM - 03:00 PM	47.3	48.8	n/a	-	43.6	-
03:00 PM - 04:00 PM	47.0	48.9	n/a	-	43.2	-
04:00 PM - 05:00 PM	48.3	49.1	n/a	-	44.2	-
05:00 PM - 06:00 PM	57.1	56.4	48.8	-	50.9	-2.1
06:00 PM - 07:00 PM	46.0	46.6	n/a	-	43.2	-
07:00 PM - 08:00 PM	45.2	45.3	n/a	-	42.8	-
08:00 PM - 09:00 PM	45.3	45.8	n/a	-	42.8	-
09:00 PM - 10:00 PM	44.3	45.1	n/a	-	42.7	-
10:00 PM - 10:05 PM	43.1	43.4	-	n/a	40.9	-
10:05 PM - 10:10 PM	44.4	43.0	-	41.8	40.7	1.1
10:10 PM - 10:15 PM	43.1	44.3	-	n/a	41.4	-
10:15 PM - 10:20 PM	43.1	44.3	-	n/a	41.9	-
10:20 PM - 10:25 PM	46.5	43.9	-	46.0	42.0	4.0
10:25 PM - 10:30 PM	45.4	44.5	-	41.1	42.0	-0.9
10:30 PM - 10:35 PM	43.0	46.4	-	n/a	41.6	-
10:35 PM - 10:40 PM	43.5	46.4	-	n/a	42.3	-
10:40 PM - 10:45 PM	43.3	43.8	-	n/a	41.8	-
10:45 PM - 10:50 PM	42.6	44.4	-	n/a	41.2	-
10:50 PM - 10:55 PM	46.3	43.1	-	46.5	41.0	5.5
10:55 PM - 11:00 PM	59.6	59.8	-	n/a	46.7	-
11:00 PM - 11:05 PM	56.5	59.8	-	n/a	46.7	-
11:05 PM - 11:10 PM	44.4	43.4	-	40.5	39.4	1.1
11:10 PM - 11:15 PM	43.9	42.8	-	40.4	32.7	7.7
11:15 PM - 11:20 PM	43.4	42.2	-	40.2	39.8	0.4
11:20 PM - 11:25 PM	41.8	42.5	-	n/a	39.5	-
11:25 PM - 11:30 PM	41.3	42.8	-	n/a	40.6	-
11:30 PM - 11:35 PM	42.4	42.6	-	n/a	40.9	-
11:35 PM - 11:40 PM	41.4	42.0	-	n/a	39.8	-
11:40 PM - 11:45 PM	41.2	42.6	-	n/a	39.9	-
11:45 PM - 11:50 PM	41.9	42.7	-	n/a	40.5	-
11:50 PM - 11:55 PM	41.1	42.5	-	n/a	40.6	-
11:55 PM - 12:00 AM	41.8	42.9	-	n/a	41.0	-
12:00 AM - 12:05 AM	42.5	43.2	-	n/a	41.7	-
12:05 AM - 12:10 AM	40.6	43.2	-	n/a	41.0	-
12:10 AM - 12:15 AM	40.7	43.1	-	n/a	39.9	-
12:15 AM - 12:20 AM	41.9	41.1	-	37.2	39.7	-2.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964011-1

Page 2 of 3

Sample No. 2432534-5
Parameter เสียงรบกวน
Location ชุมชนบ้านนา (GPS 47P 0735238, 1409020)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:20 AM - 12:25 AM	41.3	41.1	-	30.8	39.6	-8.8
12:25 AM - 12:30 AM	42.3	42.9	-	n/a	41.1	-
12:30 AM - 12:35 AM	41.5	42.6	-	n/a	41.2	-
12:35 AM - 12:40 AM	40.8	43.0	-	n/a	41.2	-
12:40 AM - 12:45 AM	41.0	42.6	-	n/a	40.8	-
12:45 AM - 12:50 AM	41.9	42.4	-	n/a	40.9	-
12:50 AM - 12:55 AM	40.6	42.6	-	n/a	40.2	-
12:55 AM - 01:00 AM	40.1	42.2	-	n/a	40.4	-
01:00 AM - 01:05 AM	40.5	41.3	-	n/a	38.7	-
01:05 AM - 01:10 AM	40.0	40.9	-	n/a	38.9	-
01:10 AM - 01:15 AM	41.0	41.2	-	n/a	39.3	-
01:15 AM - 01:20 AM	40.4	41.9	-	n/a	40.0	-
01:20 AM - 01:25 AM	46.1	41.6	-	47.2	40.1	7.1
01:25 AM - 01:30 AM	39.6	45.4	-	n/a	40.2	-
01:30 AM - 01:35 AM	39.9	41.8	-	n/a	40.1	-
01:35 AM - 01:40 AM	40.2	41.1	-	n/a	39.8	-
01:40 AM - 01:45 AM	41.6	41.0	-	35.7	39.2	-3.5
01:45 AM - 01:50 AM	40.3	40.0	-	31.5	38.5	-7.0
01:50 AM - 01:55 AM	39.7	41.6	-	n/a	38.7	-
01:55 AM - 02:00 AM	41.9	40.2	-	40.0	38.6	1.4
02:00 AM - 02:05 AM	39.8	41.9	-	n/a	39.3	-
02:05 AM - 02:10 AM	41.6	42.8	-	n/a	38.8	-
02:10 AM - 02:15 AM	40.2	40.2	-	n/a	38.3	-
02:15 AM - 02:20 AM	41.6	41.0	-	35.7	38.5	-2.8
02:20 AM - 02:25 AM	40.2	40.8	-	n/a	38.3	-
02:25 AM - 02:30 AM	40.3	42.2	-	n/a	39.1	-
02:30 AM - 02:35 AM	43.3	40.8	-	42.7	39.7	3.0
02:35 AM - 02:40 AM	41.7	41.1	-	35.8	39.0	-3.2
02:40 AM - 02:45 AM	41.9	42.8	-	n/a	39.8	-
02:45 AM - 02:50 AM	39.8	42.0	-	n/a	39.8	-
02:50 AM - 02:55 AM	39.6	41.2	-	n/a	38.7	-
02:55 AM - 03:00 AM	40.0	40.4	-	n/a	39.0	-
03:00 AM - 03:05 AM	39.1	41.2	-	n/a	38.8	-
03:05 AM - 03:10 AM	38.9	40.5	-	n/a	38.0	-
03:10 AM - 03:15 AM	40.2	39.6	-	34.3	38.3	-4.0
03:15 AM - 03:20 AM	40.3	39.5	-	35.6	37.9	-2.3
03:20 AM - 03:25 AM	41.2	40.6	-	35.3	38.9	-3.6
03:25 AM - 03:30 AM	42.1	40.6	-	39.8	38.8	1.0
03:30 AM - 03:35 AM	40.1	41.3	-	n/a	39.1	-
03:35 AM - 03:40 AM	40.9	41.8	-	n/a	37.8	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964011-1

Page 3 of 3

Sample No. 2432534-5
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	41.9	40.2	-	40.0	38.6	1.4
03:45 AM - 03:50 AM	42.5	41.0	-	40.2	39.2	1.0
03:50 AM - 03:55 AM	43.0	41.7	-	40.1	38.7	1.4
03:55 AM - 04:00 AM	41.7	43.6	-	n/a	39.3	-
04:00 AM - 04:05 AM	42.0	42.5	-	n/a	39.4	-
04:05 AM - 04:10 AM	42.5	41.6	-	38.2	39.1	-0.9
04:10 AM - 04:15 AM	41.8	42.3	-	n/a	39.1	-
04:15 AM - 04:20 AM	42.5	42.0	-	35.9	38.8	-2.9
04:20 AM - 04:25 AM	44.4	41.8	-	43.9	38.7	5.2
04:25 AM - 04:30 AM	42.5	43.1	-	n/a	39.9	-
04:30 AM - 04:35 AM	43.9	45.4	-	n/a	39.9	-
04:35 AM - 04:40 AM	44.2	43.0	-	41.0	39.6	1.4
04:40 AM - 04:45 AM	46.7	44.1	-	46.2	40.7	5.5
04:45 AM - 04:50 AM	59.6	59.9	-	n/a	52.3	-
04:50 AM - 04:55 AM	61.6	60.8	-	56.9	53.2	3.7
04:55 AM - 05:00 AM	53.2	49.8	-	53.5	46.0	7.5
05:00 AM - 05:05 AM	48.4	49.1	-	n/a	43.6	-
05:05 AM - 05:10 AM	49.3	49.5	-	n/a	46.1	-
05:10 AM - 05:15 AM	48.4	49.2	-	n/a	43.9	-
05:15 AM - 05:20 AM	48.9	48.6	-	40.1	44.7	-4.6
05:20 AM - 05:25 AM	47.2	50.3	-	n/a	45.5	-
05:25 AM - 05:30 AM	46.4	50.4	-	n/a	44.6	-
05:30 AM - 05:35 AM	48.4	48.0	-	40.8	44.5	-3.7
05:35 AM - 05:40 AM	47.2	46.8	-	39.6	43.8	-4.2
05:40 AM - 05:45 AM	49.3	49.2	-	35.9	44.6	-8.7
05:45 AM - 05:50 AM	44.9	48.0	-	n/a	44.3	-
05:50 AM - 05:55 AM	46.0	49.1	-	n/a	43.6	-
05:55 AM - 06:00 AM	46.5	45.4	-	43.0	42.7	0.3
06:00 AM - 07:00 AM	47.6	48.3	n/a	-	43.1	-
07:00 AM - 08:00 AM	46.2	46.1	29.8	-	41.5	-11.7
08:00 AM - 09:00 AM	46.8	47.0	n/a	-	42.0	-
09:00 AM - 10:00 AM	44.9	44.5	34.3	-	40.6	-6.3
ค่ามาตรฐาน						≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 06-07 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432534-5 วันที่ตรวจวัด 06-07 เมษายน 2567)
- n/a ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analysed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964012-1

Page 1 of 3

Sample No. 2432534-6
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	47.4	47.7	n/a	-	41.4	-
11:00 AM - 12:00 PM	45.0	46.0	n/a	-	40.7	-
12:00 PM - 01:00 PM	47.8	48.0	n/a	-	41.9	-
01:00 PM - 02:00 PM	47.4	48.6	n/a	-	41.3	-
02:00 PM - 03:00 PM	46.4	46.5	n/a	-	40.2	-
03:00 PM - 04:00 PM	44.8	44.7	28.4	-	40.6	-12.2
04:00 PM - 05:00 PM	46.2	45.7	36.6	-	41.5	-4.9
05:00 PM - 06:00 PM	48.5	47.9	39.6	-	43.0	-3.4
06:00 PM - 07:00 PM	53.8	51.2	50.3	-	47.1	3.2
07:00 PM - 08:00 PM	47.0	47.6	n/a	-	44.8	-
08:00 PM - 09:00 PM	45.9	46.4	n/a	-	43.1	-
09:00 PM - 10:00 PM	49.4	46.6	46.2	-	44.2	2.0
10:00 PM - 10:05 PM	53.3	51.4	-	51.8	48.6	3.2
10:05 PM - 10:10 PM	53.1	49.7	-	53.4	47.1	6.3
10:10 PM - 10:15 PM	53.3	50.8	-	52.7	48.9	3.8
10:15 PM - 10:20 PM	52.0	47.9	-	52.9	45.5	7.4
10:20 PM - 10:25 PM	51.9	48.0	-	52.6	45.5	7.1
10:25 PM - 10:30 PM	52.1	47.6	-	53.2	45.7	7.5
10:30 PM - 10:35 PM	52.1	46.9	-	53.5	45.0	8.5
10:35 PM - 10:40 PM	51.7	46.9	-	53.0	44.3	8.7
10:40 PM - 10:45 PM	51.4	46.1	-	52.9	45.1	7.8
10:45 PM - 10:50 PM	51.5	47.1	-	52.5	44.5	8.0
10:50 PM - 10:55 PM	50.5	47.3	-	50.7	46.4	4.3
10:55 PM - 11:00 PM	50.4	48.0	-	49.7	46.2	3.5
11:00 PM - 11:05 PM	51.0	48.7	-	50.1	46.1	4.0
11:05 PM - 11:10 PM	50.8	49.3	-	48.5	46.4	2.1
11:10 PM - 11:15 PM	48.1	51.8	-	n/a	49.0	-
11:15 PM - 11:20 PM	43.3	42.6	-	38.0	39.4	-1.4
11:20 PM - 11:25 PM	53.0	50.9	-	51.8	48.9	2.9
11:25 PM - 11:30 PM	55.9	52.2	-	56.5	48.9	7.6
11:30 PM - 11:35 PM	54.8	51.4	-	55.1	48.4	6.7
11:35 PM - 11:40 PM	51.5	48.2	-	51.8	47.1	4.7
11:40 PM - 11:45 PM	44.7	46.9	-	n/a	42.6	-
11:45 PM - 11:50 PM	48.6	46.7	-	47.1	42.6	4.5
11:50 PM - 11:55 PM	50.0	48.6	-	47.4	46.4	1.0
11:55 PM - 12:00 AM	45.7	44.7	-	41.8	41.3	0.5
12:00 AM - 12:05 AM	46.4	42.6	-	47.1	39.6	7.5
12:05 AM - 12:10 AM	42.1	40.9	-	38.9	39.0	-0.1
12:10 AM - 12:15 AM	42.2	46.2	-	n/a	40.0	-
12:15 AM - 12:20 AM	41.8	44.4	-	n/a	41.2	-

The above results are valid only for the analysed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964012-1

Sample No. 2432534-6
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
12:20 AM - 12:25 AM	42.2	43.1	-	n/a	39.7
12:25 AM - 12:30 AM	42.4	42.8	-	n/a	39.6
12:30 AM - 12:35 AM	40.9	43.7	-	n/a	40.4
12:35 AM - 12:40 AM	41.3	42.9	-	n/a	39.8
12:40 AM - 12:45 AM	43.1	43.4	-	n/a	39.7
12:45 AM - 12:50 AM	41.7	42.5	-	n/a	39.0
12:50 AM - 12:55 AM	42.6	43.6	-	n/a	39.3
12:55 AM - 01:00 AM	42.6	42.9	-	n/a	40.1
01:00 AM - 01:05 AM	45.1	43.9	-	41.9	40.9
01:05 AM - 01:10 AM	42.2	43.4	-	n/a	39.8
01:10 AM - 01:15 AM	40.2	44.8	-	n/a	40.5
01:15 AM - 01:20 AM	40.9	45.8	-	n/a	41.3
01:20 AM - 01:25 AM	42.8	42.2	-	36.9	39.4
01:25 AM - 01:30 AM	40.1	42.2	-	n/a	39.4
01:30 AM - 01:35 AM	41.6	44.0	-	n/a	39.2
01:35 AM - 01:40 AM	42.7	41.9	-	38.0	39.2
01:40 AM - 01:45 AM	41.8	41.6	-	31.3	39.1
01:45 AM - 01:50 AM	40.6	42.5	-	n/a	40.1
01:50 AM - 01:55 AM	40.7	41.0	-	n/a	39.7
01:55 AM - 02:00 AM	44.1	40.6	-	44.5	39.0
02:00 AM - 02:05 AM	41.1	40.7	-	33.5	39.3
02:05 AM - 02:10 AM	40.0	43.6	-	n/a	38.6
02:10 AM - 02:15 AM	41.8	41.2	-	35.9	39.9
02:15 AM - 02:20 AM	39.9	40.7	-	n/a	39.3
02:20 AM - 02:25 AM	40.6	41.8	-	n/a	39.3
02:25 AM - 02:30 AM	40.1	40.5	-	n/a	39.2
02:30 AM - 02:35 AM	39.4	40.8	-	n/a	39.3
02:35 AM - 02:40 AM	39.6	41.5	-	n/a	39.4
02:40 AM - 02:45 AM	39.1	40.0	-	n/a	38.6
02:45 AM - 02:50 AM	42.8	40.5	-	41.9	38.9
02:50 AM - 02:55 AM	41.7	39.9	-	40.0	38.1
02:55 AM - 03:00 AM	41.0	40.3	-	35.7	38.7
03:00 AM - 03:05 AM	40.4	46.4	-	n/a	40.0
03:05 AM - 03:10 AM	40.9	41.0	-	n/a	39.4
03:10 AM - 03:15 AM	41.2	41.3	-	n/a	39.5
03:15 AM - 03:20 AM	41.5	40.5	-	37.6	38.8
03:20 AM - 03:25 AM	40.2	41.3	-	n/a	39.7
03:25 AM - 03:30 AM	39.3	41.1	-	n/a	39.2
03:30 AM - 03:35 AM	40.2	40.5	-	n/a	39.3
03:35 AM - 03:40 AM	39.4	39.8	-	n/a	38.2

Page 2 of 3

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964012-1

Sample No. 2432534-6
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
03:40 AM - 03:45 AM	39.3	41.7	-	n/a	38.2
03:45 AM - 03:50 AM	40.0	39.8	-	29.5	38.4
03:50 AM - 03:55 AM	40.1	39.7	-	32.5	37.4
03:55 AM - 04:00 AM	39.5	39.8	-	n/a	37.9
04:00 AM - 04:05 AM	39.7	39.4	-	30.9	37.7
04:05 AM - 04:10 AM	39.8	39.9	-	n/a	38.4
04:10 AM - 04:15 AM	41.3	40.2	-	37.8	38.8
04:15 AM - 04:20 AM	40.1	40.1	-	n/a	38.7
04:20 AM - 04:25 AM	40.2	40.2	-	n/a	38.6
04:25 AM - 04:30 AM	41.1	42.0	-	n/a	38.3
04:30 AM - 04:35 AM	40.3	42.4	-	n/a	38.9
04:35 AM - 04:40 AM	41.4	41.1	-	32.6	39.0
04:40 AM - 04:45 AM	41.8	40.0	-	40.1	38.2
04:45 AM - 04:50 AM	43.0	40.9	-	41.8	38.9
04:50 AM - 04:55 AM	43.2	42.1	-	39.7	39.1
04:55 AM - 05:00 AM	43.7	43.1	-	37.8	38.6
05:00 AM - 05:05 AM	45.0	41.9	-	45.1	38.9
05:05 AM - 05:10 AM	45.9	43.8	-	44.7	39.6
05:10 AM - 05:15 AM	43.2	44.5	-	n/a	40.1
05:15 AM - 05:20 AM	44.6	43.8	-	39.9	40.1
05:20 AM - 05:25 AM	43.9	45.6	-	n/a	39.9
05:25 AM - 05:30 AM	43.8	44.0	-	n/a	40.5
05:30 AM - 05:35 AM	45.3	43.7	-	43.2	39.8
05:35 AM - 05:40 AM	46.6	43.4	-	46.8	40.2
05:40 AM - 05:45 AM	60.1	58.3	-	58.4	53.5
05:45 AM - 05:50 AM	61.5	58.2	-	61.8	54.3
05:50 AM - 05:55 AM	53.3	51.4	-	51.8	43.6
05:55 AM - 06:00 AM	48.5	46.4	-	47.3	40.9
06:00 AM - 07:00 AM	47.9	50.3	n/a	-	45.2
07:00 AM - 08:00 AM	49.8	50.2	n/a	-	43.1
08:00 AM - 09:00 AM	45.0	45.5	n/a	-	39.2
09:00 AM - 10:00 AM	44.6	44.6	n/a	-	38.8

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432543-6 วันที่ตรวจวัด 07-08 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964013-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432534-7
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
10:00 AM - 11:00 AM	44.2	45.0	n/a	-	40.3	-
11:00 AM - 12:00 PM	45.5	45.1	34.9	-	40.5	-5.6
12:00 PM - 01:00 PM	46.6	46.2	36.0	-	41.4	-5.4
01:00 PM - 02:00 PM	46.5	46.6	n/a	-	42.1	-
02:00 PM - 03:00 PM	46.0	47.0	n/a	-	42.0	-
03:00 PM - 04:00 PM	45.1	45.4	n/a	-	41.4	-
04:00 PM - 05:00 PM	47.6	46.8	39.9	-	42.6	-2.7
05:00 PM - 06:00 PM	49.3	49.1	35.8	-	44.6	-8.8
06:00 PM - 07:00 PM	47.7	48.0	n/a	-	44.9	-
07:00 PM - 08:00 PM	45.5	45.6	n/a	-	42.3	-
08:00 PM - 09:00 PM	45.6	45.5	29.2	-	42.1	-12.9
09:00 PM - 10:00 PM	46.5	47.6	n/a	-	44.6	-
10:00 PM - 10:05 PM	50.6	50.8	-	n/a	49.5	-
10:05 PM - 10:10 PM	44.9	49.7	-	n/a	48.9	-
10:10 PM - 10:15 PM	43.1	45.8	-	n/a	39.3	-
10:15 PM - 10:20 PM	43.5	41.5	-	42.2	39.5	2.7
10:20 PM - 10:25 PM	43.2	44.9	-	n/a	41.1	-
10:25 PM - 10:30 PM	45.4	43.3	-	44.2	41.1	3.1
10:30 PM - 10:35 PM	48.6	43.4	-	50.0	40.5	9.5
10:35 PM - 10:40 PM	45.4	43.4	-	44.1	40.3	3.8
10:40 PM - 10:45 PM	51.8	52.7	-	n/a	41.5	-
10:45 PM - 10:50 PM	48.2	46.8	-	45.6	41.5	4.1
10:50 PM - 10:55 PM	51.6	49.0	-	51.1	42.9	8.2
10:55 PM - 11:00 PM	51.9	49.8	-	50.7	48.5	2.2
11:00 PM - 11:05 PM	51.7	49.3	-	51.0	48.8	2.2
11:05 PM - 11:10 PM	51.7	49.7	-	50.4	49.1	1.3
11:10 PM - 11:15 PM	51.1	49.5	-	49.0	49.0	0.0
11:15 PM - 11:20 PM	51.3	49.7	-	49.2	49.3	-0.1
11:20 PM - 11:25 PM	52.3	49.3	-	52.3	48.8	3.5
11:25 PM - 11:30 PM	52.1	49.4	-	51.8	48.5	3.3
11:30 PM - 11:35 PM	52.2	52.1	-	38.8	48.8	-10.0
11:35 PM - 11:40 PM	52.3	52.8	-	n/a	52.1	-
11:40 PM - 11:45 PM	52.5	52.5	-	n/a	52.0	-
11:45 PM - 11:50 PM	51.6	52.6	-	n/a	50.6	-
11:50 PM - 11:55 PM	50.0	51.9	-	n/a	39.1	-
11:55 PM - 12:00 AM	43.9	45.8	-	n/a	42.0	-
12:00 AM - 12:05 AM	49.1	50.7	-	n/a	50.2	-
12:05 AM - 12:10 AM	50.8	48.0	-	50.6	41.9	8.7
12:10 AM - 12:15 AM	46.5	43.6	-	46.4	41.1	5.3
12:15 AM - 12:20 AM	50.0	48.4	-	47.9	41.3	6.6

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964013-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432534-7
Parameter เสียงรบกวน
Location ชุมชนบ้านบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:20 AM - 12:25 AM	50.2	48.7	-	47.9	41.0	6.9
12:25 AM - 12:30 AM	49.8	47.3	-	49.2	41.2	8.0
12:30 AM - 12:35 AM	51.9	48.5	-	52.2	48.1	4.1
12:35 AM - 12:40 AM	52.3	48.4	-	53.0	48.0	5.0
12:40 AM - 12:45 AM	52.5	48.1	-	53.5	47.6	5.9
12:45 AM - 12:50 AM	54.0	50.5	-	54.4	47.7	6.7
12:50 AM - 12:55 AM	52.9	51.9	-	49.0	51.2	-2.2
12:55 AM - 01:00 AM	52.9	51.6	-	50.0	51.1	-1.1
01:00 AM - 01:05 AM	53.3	53.5	-	n/a	51.5	-
01:05 AM - 01:10 AM	47.0	47.9	-	n/a	39.3	-
01:10 AM - 01:15 AM	40.3	42.8	-	n/a	39.9	-
01:15 AM - 01:20 AM	41.5	41.9	-	n/a	39.8	-
01:20 AM - 01:25 AM	43.2	43.4	-	n/a	38.2	-
01:25 AM - 01:30 AM	39.6	40.6	-	n/a	38.3	-
01:30 AM - 01:35 AM	39.7	40.5	-	n/a	38.7	-
01:35 AM - 01:40 AM	44.7	43.5	-	41.5	38.8	2.7
01:40 AM - 01:45 AM	41.0	40.1	-	36.7	37.8	-1.1
01:45 AM - 01:50 AM	42.8	39.3	-	43.2	37.9	5.3
01:50 AM - 01:55 AM	44.3	44.9	-	n/a	38.4	-
01:55 AM - 02:00 AM	41.5	40.6	-	37.2	38.6	-1.4
02:00 AM - 02:05 AM	46.2	45.3	-	41.9	38.7	3.2
02:05 AM - 02:10 AM	53.7	49.5	-	54.6	48.8	5.8
02:10 AM - 02:15 AM	47.5	46.7	-	42.8	38.2	4.6
02:15 AM - 02:20 AM	51.2	51.7	-	n/a	47.7	-
02:20 AM - 02:25 AM	50.7	48.6	-	49.5	39.8	9.7
02:25 AM - 02:30 AM	52.9	49.9	-	52.9	49.5	3.4
02:30 AM - 02:35 AM	50.8	49.0	-	49.1	39.5	9.6
02:35 AM - 02:40 AM	38.5	42.3	-	n/a	39.0	-
02:40 AM - 02:45 AM	43.7	46.2	-	n/a	39.6	-
02:45 AM - 02:50 AM	51.6	49.5	-	50.4	41.3	9.1
02:50 AM - 02:55 AM	46.7	48.8	-	n/a	40.0	-
02:55 AM - 03:00 AM	44.8	43.3	-	42.5	38.3	4.2
03:00 AM - 03:05 AM	46.7	48.6	-	n/a	48.1	-
03:05 AM - 03:10 AM	46.2	43.3	-	46.1	38.9	7.2
03:10 AM - 03:15 AM	40.2	43.2	-	n/a	39.4	-
03:15 AM - 03:20 AM	39.9	45.9	-	n/a	39.2	-
03:20 AM - 03:25 AM	40.6	42.8	-	n/a	39.5	-
03:25 AM - 03:30 AM	39.1	40.3	-	n/a	39.2	-
03:30 AM - 03:35 AM	39.7	39.6	-	26.3	38.5	-12.2
03:35 AM - 03:40 AM	40.0	40.4	-	n/a	39.4	-

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432534
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2964013-1

Page 3 of 3

Sample No. 2432534-7
Parameter เสียงรบกวน
Location ชุมชนบ้านเบน (GPS 47P 0735238, 1409020)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120938

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:40 AM - 03:45 AM	41.3	39.0	-	40.4	37.9	2.5
03:45 AM - 03:50 AM	41.5	39.4	-	40.3	38.5	1.8
03:50 AM - 03:55 AM	41.3	40.2	-	37.8	38.2	-0.4
03:55 AM - 04:00 AM	41.9	41.5	-	34.3	38.7	-4.4
04:00 AM - 04:05 AM	42.0	41.7	-	33.2	38.7	-5.5
04:05 AM - 04:10 AM	40.5	41.5	-	n/a	37.9	-
04:10 AM - 04:15 AM	42.8	41.9	-	38.5	38.9	-0.4
04:15 AM - 04:20 AM	41.3	42.1	-	n/a	39.0	-
04:20 AM - 04:25 AM	41.9	40.8	-	38.4	38.3	0.1
04:25 AM - 04:30 AM	42.8	44.9	-	n/a	37.6	-
04:30 AM - 04:35 AM	41.4	41.0	-	33.8	38.0	-4.2
04:35 AM - 04:40 AM	42.2	42.2	-	n/a	38.8	-
04:40 AM - 04:45 AM	41.3	42.5	-	-	39.3	-
04:45 AM - 04:50 AM	41.9	41.4	-	35.3	38.5	-3.2
04:50 AM - 04:55 AM	42.3	42.6	-	n/a	39.1	-
04:55 AM - 05:00 AM	44.0	41.2	-	43.8	37.6	6.2
05:00 AM - 05:05 AM	44.9	42.0	-	44.8	38.9	5.9
05:05 AM - 05:10 AM	42.9	42.4	-	36.3	40.0	-3.7
05:10 AM - 05:15 AM	43.9	43.6	-	35.1	40.1	-5.0
05:15 AM - 05:20 AM	44.2	44.5	-	n/a	40.1	-
05:20 AM - 05:25 AM	47.2	42.4	-	48.5	39.7	8.8
05:25 AM - 05:30 AM	47.5	43.4	-	48.4	39.8	8.6
05:30 AM - 05:35 AM	45.8	44.0	-	44.1	40.6	3.5
05:35 AM - 05:40 AM	48.1	45.7	-	47.4	40.9	6.5
05:40 AM - 05:45 AM	47.8	47.5	-	39.0	42.0	-3.0
05:45 AM - 05:50 AM	47.4	49.3	-	n/a	43.9	-
05:50 AM - 05:55 AM	50.1	50.6	-	n/a	43.7	-
05:55 AM - 06:00 AM	48.3	50.2	-	n/a	44.1	-
06:00 AM - 07:00 AM	47.5	42.8	n/a	-	42.8	-
07:00 AM - 08:00 AM	48.8	48.1	40.5	-	43.8	-3.3
08:00 AM - 09:00 AM	46.8	47.3	n/a	-	41.6	-
09:00 AM - 10:00 AM	43.5	44.8	n/a	-	39.8	-

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 08-09 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432543-7 วันที่ตรวจวัด 08-09 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon Borirak
Wilawon Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957071-1

Page 1 of 3

Sample No. 2432535-1
Parameter เสียงรบกวน
Location บ้านนาเขา (GPS 47P 0734560, 1408527)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	52.2	50.2	47.9	-	46.0	1.9
12:00 PM - 01:00 PM	53.5	51.7	48.8	-	46.7	2.1
01:00 PM - 02:00 PM	54.4	54.8	n/a	-	48.6	-
02:00 PM - 03:00 PM	53.1	51.2	48.6	-	45.9	2.7
03:00 PM - 04:00 PM	52.9	52.3	44.0	-	46.6	-2.6
04:00 PM - 05:00 PM	52.9	51.1	48.2	-	46.4	1.8
05:00 PM - 06:00 PM	54.6	56.4	n/a	-	50.7	-
06:00 PM - 07:00 PM	56.0	54.5	50.7	-	50.0	0.7
07:00 PM - 08:00 PM	55.0	52.9	50.8	-	48.7	2.1
08:00 PM - 09:00 PM	55.5	53.5	51.2	-	50.0	1.2
09:00 PM - 10:00 PM	55.2	53.1	51.0	-	49.1	1.9
10:00 PM - 10:05 PM	54.0	51.1	-	53.9	48.3	5.6
10:05 PM - 10:10 PM	53.9	51.2	-	53.6	49.0	4.6
10:10 PM - 10:15 PM	53.2	54.3	-	n/a	48.7	-
10:15 PM - 10:20 PM	52.1	51.1	-	48.2	48.5	-0.3
10:20 PM - 10:25 PM	54.1	51.3	-	53.9	48.8	5.1
10:25 PM - 10:30 PM	54.8	57.4	-	n/a	48.2	-
10:30 PM - 10:35 PM	52.5	55.6	-	n/a	48.0	-
10:35 PM - 10:40 PM	53.9	51.8	-	52.7	49.0	3.7
10:40 PM - 10:45 PM	55.9	54.4	-	53.6	48.2	5.4
10:45 PM - 10:50 PM	57.1	54.5	-	56.6	48.9	7.7
10:50 PM - 10:55 PM	52.1	52.1	-	56.9	47.8	9.1
10:55 PM - 11:00 PM	52.1	50.5	-	50.0	47.5	2.5
11:00 PM - 11:05 PM	52.1	51.6	-	48.2	48.1	0.1
11:05 PM - 11:10 PM	53.2	48.9	-	54.2	45.9	8.3
11:10 PM - 11:15 PM	52.4	51.9	-	45.8	46.8	-1.0
11:15 PM - 11:20 PM	51.3	50.7	-	45.4	46.2	-0.8
11:20 PM - 11:25 PM	53.1	50.6	-	52.5	47.1	5.4
11:25 PM - 11:30 PM	53.1	50.1	-	53.1	47.3	5.8
11:30 PM - 11:35 PM	53.7	51.6	-	52.5	48.0	4.5
11:35 PM - 11:40 PM	51.8	51.7	-	38.4	49.2	-10.8
11:40 PM - 11:45 PM	51.6	50.2	-	49.0	47.4	1.6
11:45 PM - 11:50 PM	52.4	51.3	-	48.9	47.1	1.8
11:50 PM - 11:55 PM	52.6	48.9	-	53.2	45.3	7.9
11:55 PM - 12:00 AM	52.0	50.5	-	49.7	46.2	3.5
12:00 AM - 12:05 AM	51.7	48.7	-	51.7	45.7	6.0
12:05 AM - 12:10 AM	50.7	50.5	-	40.2	46.6	-6.4
12:10 AM - 12:15 AM	49.7	49.4	-	40.9	45.5	-4.6
12:15 AM - 12:20 AM	51.7	48.2	-	52.1	44.7	7.4
12:20 AM - 12:25 AM	50.7	49.3	-	48.1	45.8	2.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon Borirak
Wilawon Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957071-1

Sample No. 2432535-1
Parameter เสียงรบกวน
Location ย่านมาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 2 of 3

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
12:25 AM - 12:30 AM	51.1	48.9	—	50.1	44.8
12:30 AM - 12:35 AM	51.2	47.5	—	51.8	44.7
12:35 AM - 12:40 AM	50.9	48.4	—	50.3	44.8
12:40 AM - 12:45 AM	49.0	49.6	—	n/a	44.4
12:45 AM - 12:50 AM	50.3	48.3	—	49.0	45.5
12:50 AM - 12:55 AM	50.1	56.5	—	n/a	44.9
12:55 AM - 01:00 AM	51.9	47.4	—	53.0	44.0
01:00 AM - 01:05 AM	49.4	47.6	—	47.7	43.8
01:05 AM - 01:10 AM	51.3	46.4	—	52.6	43.7
01:10 AM - 01:15 AM	50.6	48.1	—	50.0	45.2
01:15 AM - 01:20 AM	51.3	49.7	—	49.2	45.2
01:20 AM - 01:25 AM	50.4	51.0	—	n/a	48.7
01:25 AM - 01:30 AM	51.4	48.9	—	50.1	46.2
01:30 AM - 01:35 AM	51.6	49.5	—	50.4	47.4
01:35 AM - 01:40 AM	51.0	50.3	—	45.7	47.3
01:40 AM - 01:45 AM	51.2	51.4	—	n/a	47.0
01:45 AM - 01:50 AM	50.5	53.1	—	n/a	48.3
01:50 AM - 01:55 AM	52.7	50.5	—	51.7	47.2
01:55 AM - 02:00 AM	50.0	49.2	—	45.3	44.8
02:00 AM - 02:05 AM	53.4	51.9	—	51.1	47.0
02:05 AM - 02:10 AM	50.8	49.8	—	46.9	46.1
02:10 AM - 02:15 AM	51.9	50.4	—	49.6	47.0
02:15 AM - 02:20 AM	53.2	50.2	—	53.2	44.2
02:20 AM - 02:25 AM	50.2	48.5	—	48.3	44.9
02:25 AM - 02:30 AM	52.7	51.4	—	49.8	46.0
02:30 AM - 02:35 AM	49.7	47.0	—	49.4	43.9
02:35 AM - 02:40 AM	50.4	47.5	—	50.3	43.8
02:40 AM - 02:45 AM	49.8	48.8	—	45.9	44.6
02:45 AM - 02:50 AM	49.7	48.2	—	47.4	44.9
02:50 AM - 02:55 AM	49.7	47.5	—	48.7	45.2
02:55 AM - 03:00 AM	51.5	45.5	—	53.2	44.8
03:00 AM - 03:05 AM	48.8	46.8	—	47.5	44.3
03:05 AM - 03:10 AM	50.6	49.2	—	48.0	45.2
03:10 AM - 03:15 AM	50.7	47.1	—	51.2	43.3
03:15 AM - 03:20 AM	49.2	47.3	—	47.7	43.1
03:20 AM - 03:25 AM	50.9	47.6	—	51.2	43.3
03:25 AM - 03:30 AM	49.6	48.5	—	46.1	44.6
03:30 AM - 03:35 AM	49.1	52.1	—	n/a	45.2
03:35 AM - 03:40 AM	49.9	49.8	—	36.5	44.6
03:40 AM - 03:45 AM	51.4	49.6	—	49.7	45.6

The above results are valid only for the area and/or tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.
Wiwann Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957071-1

Sample No. 2432535-1
Parameter เสียงรบกวน
Location ย่านมาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 3 of 3

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
03:45 AM - 03:50 AM	53.3	49.8	—	53.7	47.0
03:50 AM - 03:55 AM	49.4	49.7	—	n/a	46.4
03:55 AM - 04:00 AM	48.0	49.0	—	47.2	43.9
04:00 AM - 04:05 AM	49.0	48.5	—	42.4	44.0
04:05 AM - 04:10 AM	50.5	49.8	—	45.2	44.9
04:10 AM - 04:15 AM	50.7	48.1	—	50.2	43.7
04:15 AM - 04:20 AM	50.0	47.7	—	49.1	43.5
04:20 AM - 04:25 AM	51.2	48.2	—	51.2	44.3
04:25 AM - 04:30 AM	50.0	52.0	—	n/a	43.1
04:30 AM - 04:35 AM	49.5	48.9	—	43.6	45.3
04:35 AM - 04:40 AM	49.0	47.4	—	46.9	43.4
04:40 AM - 04:45 AM	49.1	47.1	—	47.8	44.0
04:45 AM - 04:50 AM	49.8	48.4	—	47.2	45.0
04:50 AM - 04:55 AM	49.6	48.8	—	44.9	45.3
04:55 AM - 05:00 AM	49.5	48.2	—	46.6	44.2
05:00 AM - 05:05 AM	49.1	47.5	—	47.0	42.9
05:05 AM - 05:10 AM	47.8	47.0	—	43.1	43.0
05:10 AM - 05:15 AM	48.4	47.9	—	41.8	43.2
05:15 AM - 05:20 AM	48.2	50.5	—	n/a	42.8
05:20 AM - 05:25 AM	48.6	48.5	—	35.2	44.0
05:25 AM - 05:30 AM	51.7	49.1	—	51.2	43.8
05:30 AM - 05:35 AM	49.8	49.5	—	41.0	44.7
05:35 AM - 05:40 AM	47.9	49.1	—	n/a	44.5
05:40 AM - 05:45 AM	49.6	48.3	—	46.7	43.6
05:45 AM - 05:50 AM	49.7	50.0	—	n/a	44.1
05:50 AM - 05:55 AM	48.8	48.7	—	35.4	44.2
05:55 AM - 06:00 AM	51.8	48.6	—	52.0	44.6
06:00 AM - 07:00 AM	52.2	52.4	n/a	—	44.3
07:00 AM - 08:00 AM	53.7	51.3	50.0	—	47.2
08:00 AM - 09:00 AM	56.4	55.1	50.5	—	49.9
09:00 AM - 10:00 AM	55.9	55.3	47.0	—	50.2
10:00 AM - 11:00 AM	54.5	53.1	48.9	—	47.4

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ท้าการตรวจวัด วันที่ 02-03 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432544-1 วันที่ตรวจวัด 02-03 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the area and/or tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.
Wiwann Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-2
Parameter เสียงรบกวน
Location บ้านนกเขา (GPS 47P 0734560, 1408527)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957072-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	53.3	50.8	49.7	-	47.0	2.7
12:00 PM - 01:00 PM	53.5	53.6	n/a	-	48.1	-
01:00 PM - 02:00 PM	53.2	53.9	n/a	-	47.6	-
02:00 PM - 03:00 PM	53.4	51.7	48.5	-	46.6	1.9
03:00 PM - 04:00 PM	53.4	51.8	48.3	-	46.6	1.7
04:00 PM - 05:00 PM	53.4	51.9	48.1	-	47.4	0.7
05:00 PM - 06:00 PM	55.0	53.2	50.3	-	47.7	2.6
06:00 PM - 07:00 PM	56.6	55.9	48.3	-	49.5	-1.2
07:00 PM - 08:00 PM	56.1	54.4	51.2	-	49.4	1.8
08:00 PM - 09:00 PM	54.8	56.2	n/a	-	50.8	-
09:00 PM - 10:00 PM	54.4	52.5	49.9	-	49.1	0.8
10:00 PM - 10:05 PM	53.1	50.2	-	53.0	48.3	4.7
10:05 PM - 10:10 PM	53.3	51.0	-	52.4	47.9	4.5
10:10 PM - 10:15 PM	52.8	52.3	-	46.2	49.2	-3.0
10:15 PM - 10:20 PM	52.5	53.2	-	n/a	49.3	-
10:20 PM - 10:25 PM	52.2	51.0	-	49.0	48.1	0.9
10:25 PM - 10:30 PM	54.0	54.2	-	n/a	48.2	-
10:30 PM - 10:35 PM	53.7	52.5	-	50.5	48.9	1.6
10:35 PM - 10:40 PM	54.6	51.5	-	54.7	49.3	5.4
10:40 PM - 10:45 PM	55.5	50.8	-	56.7	48.9	7.8
10:45 PM - 10:50 PM	55.9	51.2	-	57.1	48.9	8.2
10:50 PM - 10:55 PM	53.2	52.4	-	48.5	49.6	-1.1
10:55 PM - 11:00 PM	53.0	51.1	-	51.5	48.8	2.7
11:00 PM - 11:05 PM	52.0	51.8	-	41.5	49.3	-7.8
11:05 PM - 11:10 PM	54.1	50.7	-	54.4	48.7	5.7
11:10 PM - 11:15 PM	52.5	50.9	-	50.4	48.7	1.7
11:15 PM - 11:20 PM	53.2	51.5	-	51.3	48.8	2.5
11:20 PM - 11:25 PM	52.6	50.4	-	51.6	48.6	3.0
11:25 PM - 11:30 PM	52.6	50.6	-	51.3	48.7	2.6
11:30 PM - 11:35 PM	52.7	51.6	-	49.2	48.8	0.4
11:35 PM - 11:40 PM	52.4	51.4	-	48.5	48.0	0.5
11:40 PM - 11:45 PM	52.1	50.6	-	49.8	48.0	1.8
11:45 PM - 11:50 PM	53.3	50.1	-	53.5	47.4	6.1
11:50 PM - 11:55 PM	51.9	51.2	-	46.6	47.7	-1.1
11:55 PM - 12:00 AM	52.2	51.4	-	47.5	48.4	-0.9
12:00 AM - 12:05 AM	52.4	50.2	-	51.4	46.7	4.7
12:05 AM - 12:10 AM	52.1	54.2	-	n/a	46.7	-
12:10 AM - 12:15 AM	52.7	52.1	-	46.8	46.9	-0.1
12:15 AM - 12:20 AM	51.3	49.7	-	49.2	45.7	3.5
12:20 AM - 12:25 AM	53.2	48.8	-	54.2	46.1	8.1

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-2
Parameter เสียงรบกวน
Location บ้านนกเขา (GPS 47P 0734560, 1408527)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957072-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	52.0	50.2	-	50.3	46.5	3.8
12:30 AM - 12:35 AM	52.3	49.7	-	51.8	45.6	6.2
12:35 AM - 12:40 AM	53.5	48.6	-	54.8	45.8	9.0
12:40 AM - 12:45 AM	50.0	47.8	-	49.0	44.6	4.4
12:45 AM - 12:50 AM	50.0	48.1	-	48.5	45.4	3.1
12:50 AM - 12:55 AM	53.4	49.9	-	53.8	44.7	9.1
12:55 AM - 01:00 AM	52.3	49.1	-	52.5	45.1	7.4
01:00 AM - 01:05 AM	51.9	48.2	-	52.5	45.7	6.8
01:05 AM - 01:10 AM	54.3	48.3	-	56.0	46.1	9.9
01:10 AM - 01:15 AM	50.3	47.4	-	50.2	43.9	6.3
01:15 AM - 01:20 AM	53.4	48.1	-	54.9	45.7	9.2
01:20 AM - 01:25 AM	53.3	49.5	-	54.0	44.8	9.2
01:25 AM - 01:30 AM	53.7	50.0	-	54.3	46.0	8.3
01:30 AM - 01:35 AM	50.8	48.8	-	49.5	44.8	4.7
01:35 AM - 01:40 AM	54.6	50.7	-	55.3	46.1	9.2
01:40 AM - 01:45 AM	54.0	49.0	-	55.3	45.8	9.5
01:45 AM - 01:50 AM	50.5	49.2	-	47.6	46.1	1.5
01:50 AM - 01:55 AM	50.4	48.1	-	49.5	44.1	5.4
01:55 AM - 02:00 AM	49.4	47.5	-	47.9	43.5	4.4
02:00 AM - 02:05 AM	50.3	48.2	-	49.1	44.9	4.2
02:05 AM - 02:10 AM	53.2	51.0	-	52.2	45.1	7.1
02:10 AM - 02:15 AM	54.2	51.8	-	53.5	44.5	9.0
02:15 AM - 02:20 AM	50.8	49.6	-	47.6	44.4	3.2
02:20 AM - 02:25 AM	53.7	57.0	-	n/a	44.8	-
02:25 AM - 02:30 AM	50.8	48.2	-	50.3	44.8	5.5
02:30 AM - 02:35 AM	50.2	47.7	-	49.6	43.4	6.2
02:35 AM - 02:40 AM	50.5	45.4	-	51.9	42.5	9.4
02:40 AM - 02:45 AM	50.8	49.3	-	48.5	44.8	3.7
02:45 AM - 02:50 AM	53.9	49.5	-	54.9	45.8	9.1
02:50 AM - 02:55 AM	53.1	48.3	-	54.4	44.9	9.5
02:55 AM - 03:00 AM	53.3	48.7	-	54.5	45.6	8.9
03:00 AM - 03:05 AM	53.3	49.5	-	54.0	46.5	7.5
03:05 AM - 03:10 AM	52.5	49.2	-	52.8	45.8	7.0
03:10 AM - 03:15 AM	52.9	58.1	-	n/a	48.5	-
03:15 AM - 03:20 AM	52.4	52.1	-	43.6	44.9	-1.3
03:20 AM - 03:25 AM	52.9	48.4	-	54.0	44.5	9.5
03:25 AM - 03:30 AM	57.6	56.6	-	53.7	44.3	9.4
03:30 AM - 03:35 AM	50.8	48.9	-	49.3	45.1	4.2
03:35 AM - 03:40 AM	53.3	49.9	-	53.6	44.9	8.7
03:40 AM - 03:45 AM	50.8	45.9	-	52.1	43.2	8.9

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957072-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432535-2
Parameter เสียงรบกวน
Location บ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.3	46.6	-	50.9	43.6	7.3
03:50 AM - 03:55 AM	49.4	45.9	-	49.8	43.6	6.2
03:55 AM - 04:00 AM	52.7	46.7	-	54.4	44.4	10.0
04:00 AM - 04:05 AM	51.1	46.3	-	52.4	43.6	8.8
04:05 AM - 04:10 AM	51.1	46.6	-	52.2	44.0	8.2
04:10 AM - 04:15 AM	51.6	46.6	-	52.9	43.2	9.7
04:15 AM - 04:20 AM	50.4	46.7	-	51.0	43.6	7.4
04:20 AM - 04:25 AM	51.3	47.0	-	52.3	43.3	9.0
04:25 AM - 04:30 AM	51.3	47.9	-	51.6	42.8	8.8
04:30 AM - 04:35 AM	50.8	46.7	-	51.7	44.4	7.3
04:35 AM - 04:40 AM	50.0	45.2	-	51.3	41.8	9.5
04:40 AM - 04:45 AM	51.1	47.9	-	51.3	42.8	8.5
04:45 AM - 04:50 AM	48.5	44.9	-	49.0	42.4	6.6
04:50 AM - 04:55 AM	47.1	44.7	-	46.4	41.1	5.3
04:55 AM - 05:00 AM	50.2	46.2	-	51.0	41.9	9.1
05:00 AM - 05:05 AM	48.8	44.8	-	49.6	41.7	7.9
05:05 AM - 05:10 AM	49.9	55.4	-	n/a	41.3	-
05:10 AM - 05:15 AM	50.6	47.9	-	50.3	42.4	7.9
05:15 AM - 05:20 AM	48.8	45.6	-	49.0	42.2	6.8
05:20 AM - 05:25 AM	49.8	45.2	-	51.0	42.1	8.9
05:25 AM - 05:30 AM	53.0	50.6	-	52.3	42.5	9.8
05:30 AM - 05:35 AM	51.7	50.8	-	47.4	42.2	5.2
05:35 AM - 05:40 AM	49.5	48.1	-	46.9	42.6	4.3
05:40 AM - 05:45 AM	49.6	48.1	-	47.3	42.4	4.9
05:45 AM - 05:50 AM	49.0	49.3	-	n/a	43.1	-
05:50 AM - 05:55 AM	51.7	48.5	-	51.9	44.1	7.8
05:55 AM - 06:00 AM	51.5	49.3	-	50.5	44.2	6.3
06:00 AM - 07:00 AM	51.0	51.0	n/a	-	44.8	-
07:00 AM - 08:00 AM	54.9	52.6	51.0	-	48.3	2.7
08:00 AM - 09:00 AM	56.2	55.9	44.4	-	49.2	4.8
09:00 AM - 10:00 AM	56.9	55.0	52.4	-	49.5	2.9
10:00 AM - 11:00 AM	53.4	52.6	45.7	-	47.5	-1.8
ค่ามาตรฐาน						≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน :
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark :
1. ระดับเสียงจากแหล่งกำเนิด พักการตรวจวัด วันที่ 03-04 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432544-2 วันที่ตรวจวัด 03-04 เมษายน 2567)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957073-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432535-3
Parameter เสียงรบกวน
Location บ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	55.8	53.7	51.6	-	53.0	-1.4
12:00 PM - 01:00 PM	57.3	53.0	55.3	-	52.5	2.8
01:00 PM - 02:00 PM	55.0	53.1	50.5	-	52.4	-1.9
02:00 PM - 03:00 PM	53.9	53.1	46.2	-	52.6	-6.4
03:00 PM - 04:00 PM	54.6	53.6	47.7	-	53.1	-5.4
04:00 PM - 05:00 PM	54.7	54.1	45.8	-	53.4	-7.6
05:00 PM - 06:00 PM	56.3	56.7	n/a	-	53.9	-
06:00 PM - 07:00 PM	56.4	58.7	n/a	-	53.9	-
07:00 PM - 08:00 PM	55.7	58.8	n/a	-	55.4	-
08:00 PM - 09:00 PM	57.6	56.5	51.1	-	54.1	-3.0
09:00 PM - 10:00 PM	55.2	54.7	45.6	-	53.5	-7.9
10:00 PM - 10:05 PM	57.5	54.0	-	57.9	53.4	4.5
10:05 PM - 10:10 PM	55.1	54.1	-	51.2	53.4	-2.2
10:10 PM - 10:15 PM	53.1	54.0	-	n/a	53.5	-
10:15 PM - 10:20 PM	52.5	54.4	-	n/a	53.5	-
10:20 PM - 10:25 PM	53.9	54.3	-	n/a	53.5	-
10:25 PM - 10:30 PM	51.7	53.8	-	n/a	53.4	-
10:30 PM - 10:35 PM	53.6	54.2	-	n/a	53.4	-
10:35 PM - 10:40 PM	60.0	54.8	-	61.4	53.7	7.7
10:40 PM - 10:45 PM	55.6	54.7	-	51.3	53.6	-2.3
10:45 PM - 10:50 PM	56.8	54.1	-	56.5	53.4	3.1
10:50 PM - 10:55 PM	52.9	54.8	-	n/a	53.6	-
10:55 PM - 11:00 PM	52.6	54.1	-	n/a	53.4	-
11:00 PM - 11:05 PM	57.4	53.7	-	58.0	53.1	4.9
11:05 PM - 11:10 PM	51.5	53.4	-	n/a	53.0	-
11:10 PM - 11:15 PM	52.5	53.5	-	n/a	53.1	-
11:15 PM - 11:20 PM	53.5	53.5	-	n/a	53.1	-
11:20 PM - 11:25 PM	50.3	48.4	-	48.8	47.9	0.9
11:25 PM - 11:30 PM	50.2	49.0	-	47.0	48.3	-1.3
11:30 PM - 11:35 PM	50.7	53.5	-	n/a	52.9	-
11:35 PM - 11:40 PM	53.4	53.8	-	n/a	53.0	-
11:40 PM - 11:45 PM	51.6	53.5	-	n/a	52.9	-
11:45 PM - 11:50 PM	50.5	53.5	-	n/a	52.9	-
11:50 PM - 11:55 PM	51.1	53.3	-	n/a	53.0	-
11:55 PM - 12:00 AM	52.3	53.4	-	n/a	52.9	-
12:00 AM - 12:05 AM	49.6	50.1	-	n/a	49.7	-
12:05 AM - 12:10 AM	51.7	53.1	-	n/a	52.8	-
12:10 AM - 12:15 AM	51.1	53.3	-	n/a	52.9	-
12:15 AM - 12:20 AM	50.7	53.4	-	n/a	53.0	-
12:20 AM - 12:25 AM	51.2	53.5	-	n/a	53.2	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-3
Parameter เสียงรบกวน
Location บ้านฉาง (GPS 47P 0734560, 1408527)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957073-1

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	49.9	49.3	-	44.0	49.0	-5.0
12:30 AM - 12:35 AM	53.0	53.2	-	n/a	52.8	-
12:35 AM - 12:40 AM	52.2	53.1	-	n/a	52.7	-
12:40 AM - 12:45 AM	52.5	53.2	-	n/a	52.9	-
12:45 AM - 12:50 AM	51.7	53.0	-	n/a	52.7	-
12:50 AM - 12:55 AM	50.6	52.8	-	n/a	52.4	-
12:55 AM - 01:00 AM	51.2	49.6	-	48.6	49.4	-0.8
01:00 AM - 01:05 AM	49.7	49.7	-	n/a	49.4	-
01:05 AM - 01:10 AM	50.5	49.9	-	44.6	49.5	-4.9
01:10 AM - 01:15 AM	49.9	49.0	-	45.6	48.6	-3.0
01:15 AM - 01:20 AM	51.3	53.3	-	n/a	52.7	-
01:20 AM - 01:25 AM	50.1	50.3	-	n/a	49.9	-
01:25 AM - 01:30 AM	51.3	53.3	-	n/a	52.9	-
01:30 AM - 01:35 AM	51.1	53.2	-	n/a	52.9	-
01:35 AM - 01:40 AM	52.4	53.0	-	n/a	52.7	-
01:40 AM - 01:45 AM	51.8	53.1	-	n/a	52.7	-
01:45 AM - 01:50 AM	49.2	49.3	-	n/a	48.9	-
01:50 AM - 01:55 AM	49.0	48.9	-	35.6	48.6	-13.0
01:55 AM - 02:00 AM	49.0	50.4	-	n/a	50.0	-
02:00 AM - 02:05 AM	49.8	48.4	-	47.2	48.0	-0.8
02:05 AM - 02:10 AM	49.8	49.8	-	n/a	49.4	-
02:10 AM - 02:15 AM	49.6	50.3	-	n/a	49.9	-
02:15 AM - 02:20 AM	49.6	49.4	-	39.1	49.1	-10.0
02:20 AM - 02:25 AM	49.9	50.3	-	n/a	50.0	-
02:25 AM - 02:30 AM	49.2	49.2	-	n/a	48.9	-
02:30 AM - 02:35 AM	50.4	53.0	-	n/a	52.7	-
02:35 AM - 02:40 AM	55.0	52.9	-	53.8	52.6	1.2
02:40 AM - 02:45 AM	51.7	50.2	-	49.4	49.8	-0.4
02:45 AM - 02:50 AM	49.4	49.4	-	n/a	49.1	-
02:50 AM - 02:55 AM	50.8	48.8	-	49.5	48.5	1.0
02:55 AM - 03:00 AM	49.3	50.1	-	n/a	49.7	-
03:00 AM - 03:05 AM	50.2	48.9	-	47.3	48.6	-1.3
03:05 AM - 03:10 AM	50.9	50.6	-	42.1	50.3	-8.2
03:10 AM - 03:15 AM	51.1	50.4	-	45.8	50.0	-4.2
03:15 AM - 03:20 AM	54.1	53.1	-	50.2	52.7	-2.5
03:20 AM - 03:25 AM	49.2	48.9	-	40.4	48.6	-8.2
03:25 AM - 03:30 AM	50.1	49.4	-	44.8	49.1	-4.3
03:30 AM - 03:35 AM	48.9	50.1	-	n/a	49.8	-
03:35 AM - 03:40 AM	49.9	48.9	-	46.0	48.5	-2.5
03:40 AM - 03:45 AM	53.2	53.1	-	39.8	52.6	-12.8

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-3
Parameter เสียงรบกวน
Location บ้านฉาง (GPS 47P 0734560, 1408527)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957073-1

Page 3 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	51.2	53.2	-	n/a	52.7	-
03:50 AM - 03:55 AM	48.2	48.8	-	n/a	48.3	-
03:55 AM - 04:00 AM	49.6	49.6	-	n/a	49.1	-
04:00 AM - 04:05 AM	52.1	53.3	-	n/a	52.8	-
04:05 AM - 04:10 AM	49.0	47.9	-	45.5	47.5	-2.0
04:10 AM - 04:15 AM	48.4	48.7	-	n/a	48.3	-
04:15 AM - 04:20 AM	48.8	49.5	-	n/a	49.0	-
04:20 AM - 04:25 AM	48.6	49.2	-	n/a	48.8	-
04:25 AM - 04:30 AM	49.8	49.8	-	n/a	49.4	-
04:30 AM - 04:35 AM	49.5	50.8	-	n/a	50.3	-
04:35 AM - 04:40 AM	49.1	49.0	-	35.7	48.5	-12.8
04:40 AM - 04:45 AM	51.2	53.8	-	n/a	53.4	-
04:45 AM - 04:50 AM	52.7	53.8	-	n/a	53.5	-
04:50 AM - 04:55 AM	50.3	49.3	-	46.4	48.7	-2.3
04:55 AM - 05:00 AM	52.0	53.7	-	n/a	53.4	-
05:00 AM - 05:05 AM	50.9	48.4	-	50.3	47.9	2.4
05:05 AM - 05:10 AM	52.8	53.9	-	n/a	53.4	-
05:10 AM - 05:15 AM	51.0	54.3	-	n/a	53.2	-
05:15 AM - 05:20 AM	50.8	48.8	-	49.5	48.4	1.1
05:20 AM - 05:25 AM	51.8	53.5	-	n/a	53.0	-
05:25 AM - 05:30 AM	49.7	49.0	-	44.4	48.5	-4.1
05:30 AM - 05:35 AM	49.7	48.7	-	45.8	48.3	-2.5
05:35 AM - 05:40 AM	49.4	49.0	-	41.8	48.4	-6.6
05:40 AM - 05:45 AM	52.3	53.6	-	n/a	53.1	-
05:45 AM - 05:50 AM	54.9	54.0	-	50.6	53.3	-2.7
05:50 AM - 05:55 AM	53.7	53.6	-	40.3	53.2	-12.9
05:55 AM - 06:00 AM	52.0	53.4	-	n/a	53.0	-
06:00 AM - 07:00 AM	53.9	53.4	44.3	-	52.9	-8.6
07:00 AM - 08:00 AM	56.4	53.0	53.7	-	52.6	1.1
08:00 AM - 09:00 AM	56.6	53.4	53.8	-	52.9	0.9
09:00 AM - 10:00 AM	57.0	53.3	54.6	-	52.7	1.9
10:00 AM - 11:00 AM	56.8	52.9	54.5	-	52.3	2.2

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ช่วงตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432544-3 วันที่ตรวจวัด 04-05 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957074-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432535-4
Parameter เสียงรบกวน
Location บ้านฉาง (GPS 47P 0734560, 1408527)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	57.9	56.4	52.6	-	51.8	0.8
12:00 PM - 01:00 PM	55.1	54.7	44.5	-	49.5	-5.0
01:00 PM - 02:00 PM	52.9	52.1	45.2	-	46.7	-1.5
02:00 PM - 03:00 PM	54.0	53.1	46.7	-	46.9	-0.2
03:00 PM - 04:00 PM	54.4	52.7	49.5	-	48.0	1.5
04:00 PM - 05:00 PM	55.8	54.7	49.3	-	50.4	-1.1
05:00 PM - 06:00 PM	55.4	54.0	49.8	-	49.6	0.2
06:00 PM - 07:00 PM	55.3	54.8	45.7	-	50.8	-5.1
07:00 PM - 08:00 PM	54.6	53.2	49.0	-	49.2	-0.2
08:00 PM - 09:00 PM	54.8	53.1	49.9	-	48.6	1.3
09:00 PM - 10:00 PM	53.4	55.0	n/a	-	51.6	-
10:00 PM - 10:05 PM	53.5	54.8	-	n/a	48.2	-
10:05 PM - 10:10 PM	53.1	57.1	-	n/a	49.9	-
10:10 PM - 10:15 PM	51.7	55.7	-	n/a	54.5	-
10:15 PM - 10:20 PM	54.0	55.0	-	n/a	50.6	-
10:20 PM - 10:25 PM	53.2	54.7	-	n/a	50.5	-
10:25 PM - 10:30 PM	53.0	58.6	-	n/a	57.3	-
10:30 PM - 10:35 PM	53.7	55.2	-	n/a	48.6	-
10:35 PM - 10:40 PM	52.0	51.5	-	45.4	48.3	-2.9
10:40 PM - 10:45 PM	52.4	58.6	-	n/a	57.4	-
10:45 PM - 10:50 PM	51.7	50.8	-	47.4	47.9	-0.5
10:50 PM - 10:55 PM	51.7	57.6	-	n/a	49.6	-
10:55 PM - 11:00 PM	53.2	56.8	-	n/a	48.4	-
11:00 PM - 11:05 PM	51.6	56.4	-	n/a	47.4	-
11:05 PM - 11:10 PM	50.9	57.3	-	n/a	56.3	-
11:10 PM - 11:15 PM	52.0	53.9	-	n/a	45.6	-
11:15 PM - 11:20 PM	52.5	51.5	-	48.6	46.2	2.4
11:20 PM - 11:25 PM	51.3	57.0	-	n/a	56.3	-
11:25 PM - 11:30 PM	52.2	57.7	-	n/a	56.5	-
11:30 PM - 11:35 PM	54.7	55.9	-	n/a	48.6	-
11:35 PM - 11:40 PM	53.3	52.0	-	50.4	47.8	2.6
11:40 PM - 11:45 PM	52.5	58.6	-	n/a	55.9	-
11:45 PM - 11:50 PM	50.9	55.2	-	n/a	48.0	-
11:50 PM - 11:55 PM	51.5	52.3	-	n/a	47.8	-
11:55 PM - 12:00 AM	51.2	51.8	-	n/a	48.1	-
12:00 AM - 12:05 AM	52.1	51.7	-	44.5	47.9	-3.4
12:05 AM - 12:10 AM	49.9	51.4	-	n/a	47.5	-
12:10 AM - 12:15 AM	50.2	57.5	-	n/a	56.4	-
12:15 AM - 12:20 AM	51.5	49.3	-	50.5	46.0	4.5
12:20 AM - 12:25 AM	52.9	49.7	-	53.1	46.5	6.5

The above results are valid only for the anal yzed/ tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957074-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432535-4
Parameter เสียงรบกวน
Location บ้านฉาง (GPS 47P 0734560, 1408527)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	52.4	50.8	-	50.3	46.3	4.0
12:30 AM - 12:35 AM	50.0	50.0	-	n/a	45.9	-
12:35 AM - 12:40 AM	56.7	54.3	-	56.0	49.6	6.4
12:40 AM - 12:45 AM	50.3	48.2	-	49.1	44.7	4.4
12:45 AM - 12:50 AM	52.5	55.1	-	n/a	46.0	-
12:50 AM - 12:55 AM	51.0	47.1	-	51.7	43.7	8.0
12:55 AM - 01:00 AM	52.9	49.5	-	53.2	45.2	8.0
01:00 AM - 01:05 AM	52.6	47.5	-	54.0	45.4	8.6
01:05 AM - 01:10 AM	49.9	50.3	-	n/a	43.9	-
01:10 AM - 01:15 AM	50.6	49.9	-	45.3	45.2	0.1
01:15 AM - 01:20 AM	49.6	45.6	-	50.4	43.3	7.1
01:20 AM - 01:25 AM	49.8	47.5	-	48.9	44.6	4.3
01:25 AM - 01:30 AM	49.2	47.2	-	47.9	44.3	3.6
01:30 AM - 01:35 AM	50.4	46.6	-	51.1	43.4	7.7
01:35 AM - 01:40 AM	48.7	46.8	-	47.2	43.7	3.5
01:40 AM - 01:45 AM	49.3	48.8	-	42.7	44.6	-1.9
01:45 AM - 01:50 AM	49.6	47.3	-	48.7	44.5	4.2
01:50 AM - 01:55 AM	51.2	47.8	-	51.5	45.3	6.2
01:55 AM - 02:00 AM	50.0	49.9	-	36.6	48.5	-11.9
02:00 AM - 02:05 AM	50.7	51.8	-	n/a	45.8	-
02:05 AM - 02:10 AM	50.8	48.3	-	50.2	45.9	4.3
02:10 AM - 02:15 AM	52.6	49.4	-	52.8	46.6	6.2
02:15 AM - 02:20 AM	52.9	49.2	-	53.5	46.0	7.5
02:20 AM - 02:25 AM	50.3	52.2	-	n/a	46.0	-
02:25 AM - 02:30 AM	49.5	51.7	-	n/a	45.5	-
02:30 AM - 02:35 AM	48.6	48.1	-	42.0	45.9	-3.9
02:35 AM - 02:40 AM	48.3	48.0	-	39.5	45.5	-6.0
02:40 AM - 02:45 AM	47.9	47.6	-	39.1	45.5	-6.4
02:45 AM - 02:50 AM	49.3	47.6	-	47.4	45.1	2.3
02:50 AM - 02:55 AM	48.8	46.5	-	47.9	44.5	3.4
02:55 AM - 03:00 AM	48.8	48.0	-	44.1	45.9	-1.8
03:00 AM - 03:05 AM	48.3	48.2	-	34.9	46.1	-11.2
03:05 AM - 03:10 AM	49.7	47.8	-	48.2	45.5	2.7
03:10 AM - 03:15 AM	51.0	46.9	-	51.9	44.6	7.3
03:15 AM - 03:20 AM	48.1	47.6	-	41.5	44.6	-3.1
03:20 AM - 03:25 AM	48.7	49.3	-	n/a	44.0	-
03:25 AM - 03:30 AM	50.2	45.0	-	51.6	42.9	8.7
03:30 AM - 03:35 AM	48.6	45.6	-	48.6	42.9	5.7
03:35 AM - 03:40 AM	48.9	47.7	-	45.7	43.4	2.3
03:40 AM - 03:45 AM	49.6	45.0	-	50.8	42.3	8.5

The above results are valid only for the anal yzed/ tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957074-1

Page 3 of 3

Sample No. 2432535-4
Parameter เสียงรบกวน
Location บ้านนกเขา (GPS 47P 0734560, 1408527)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	51.7	49.0	-	51.4	45.5	5.9
03:50 AM - 03:55 AM	49.9	46.2	-	50.5	42.8	7.7
03:55 AM - 04:00 AM	48.0	49.0	-	n/a	42.8	-
04:00 AM - 04:05 AM	49.7	45.4	-	50.7	42.8	7.9
04:05 AM - 04:10 AM	48.6	44.1	-	49.7	41.5	8.2
04:10 AM - 04:15 AM	50.2	45.6	-	51.4	42.7	8.7
04:15 AM - 04:20 AM	52.1	50.7	-	49.5	47.7	1.8
04:20 AM - 04:25 AM	49.9	47.4	-	49.3	42.2	7.1
04:25 AM - 04:30 AM	53.7	52.1	-	51.6	47.5	4.1
04:30 AM - 04:35 AM	51.5	48.1	-	51.8	42.9	8.9
04:35 AM - 04:40 AM	51.1	51.6	-	n/a	44.8	-
04:40 AM - 04:45 AM	52.1	49.8	-	51.2	43.5	7.7
04:45 AM - 04:50 AM	50.8	49.2	-	48.7	43.7	5.0
04:50 AM - 04:55 AM	53.0	50.8	-	52.0	43.0	9.0
04:55 AM - 05:00 AM	50.9	48.5	-	50.2	43.1	7.1
05:00 AM - 05:05 AM	49.7	50.4	-	n/a	46.2	-
05:05 AM - 05:10 AM	50.6	47.0	-	51.1	43.0	8.1
05:10 AM - 05:15 AM	51.6	50.8	-	46.9	47.3	-0.4
05:15 AM - 05:20 AM	54.6	52.0	-	54.1	48.1	6.0
05:20 AM - 05:25 AM	55.3	54.9	-	47.7	50.0	-2.3
05:25 AM - 05:30 AM	51.7	53.5	-	n/a	45.7	-
05:30 AM - 05:35 AM	51.7	53.8	-	n/a	46.6	-
05:35 AM - 05:40 AM	51.6	49.5	-	50.4	45.4	5.0
05:40 AM - 05:45 AM	54.0	53.9	-	40.6	41.7	-1.1
05:45 AM - 05:50 AM	54.3	51.4	-	54.2	46.4	7.8
05:50 AM - 05:55 AM	54.5	52.6	-	53.0	47.5	5.5
05:55 AM - 06:00 AM	54.2	52.9	-	51.3	47.4	3.9
06:00 AM - 07:00 AM	55.3	53.4	50.8	-	49.0	1.8
07:00 AM - 08:00 AM	54.4	53.6	46.7	-	48.4	-1.7
08:00 AM - 09:00 AM	53.9	52.5	48.3	-	47.5	0.8
09:00 AM - 10:00 AM	54.2	52.7	48.9	-	47.8	1.1
10:00 AM - 11:00 AM	53.1	51.9	46.9	-	47.8	-0.9

ค่ามาตรฐาน

Reference Method :

1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง 18การตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เปื้อนอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

1. ระดับเสียงจากแหล่งกำเนิด ที่การตรวจวัด วันที่ 05-06 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432544-4 วันที่ตรวจวัด 05-06 เมษายน 2567)
3. n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957075-1

Page 1 of 3

Sample No. 2432535-5
Parameter เสียงรบกวน
Location บ้านนกเขา (GPS 47P 0734560, 1408527)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	55.2	53.9	49.3	-	49.6	-0.3
12:00 PM - 01:00 PM	54.3	54.9	n/a	-	50.7	-
01:00 PM - 02:00 PM	54.8	55.1	n/a	-	52.8	-
02:00 PM - 03:00 PM	55.5	52.9	52.0	-	49.5	2.5
03:00 PM - 04:00 PM	56.3	54.5	51.6	-	49.7	1.9
04:00 PM - 05:00 PM	55.1	53.6	49.8	-	48.8	1.0
05:00 PM - 06:00 PM	57.1	54.8	53.2	-	51.8	1.4
06:00 PM - 07:00 PM	56.4	53.6	53.2	-	50.6	2.6
07:00 PM - 08:00 PM	55.6	53.5	51.4	-	51.6	-0.2
08:00 PM - 09:00 PM	55.0	52.5	51.4	-	49.0	2.4
09:00 PM - 10:00 PM	53.4	50.5	50.3	-	47.5	2.8
10:00 PM - 10:05 PM	51.9	50.4	-	49.6	48.2	1.4
10:05 PM - 10:10 PM	55.3	52.2	-	55.4	47.5	7.9
10:10 PM - 10:15 PM	52.6	49.3	-	52.9	47.2	5.7
10:15 PM - 10:20 PM	53.5	49.1	-	54.5	47.2	7.3
10:20 PM - 10:25 PM	53.8	49.4	-	54.8	47.5	7.3
10:25 PM - 10:30 PM	52.5	48.4	-	53.4	46.9	6.5
10:30 PM - 10:35 PM	52.3	48.6	-	52.9	46.9	6.0
10:35 PM - 10:40 PM	52.7	51.5	-	49.5	47.3	2.2
10:40 PM - 10:45 PM	52.7	52.3	-	45.1	47.5	-2.4
10:45 PM - 10:50 PM	52.3	50.9	-	49.7	47.8	1.9
10:50 PM - 10:55 PM	54.0	51.2	-	53.8	48.6	5.2
10:55 PM - 11:00 PM	54.4	51.1	-	54.7	47.7	7.0
11:00 PM - 11:05 PM	52.7	50.8	-	51.2	47.9	3.3
11:05 PM - 11:10 PM	52.6	52.4	-	42.1	48.6	-6.5
11:10 PM - 11:15 PM	51.4	53.4	-	n/a	48.2	-
11:15 PM - 11:20 PM	53.4	51.8	-	51.3	48.3	3.0
11:20 PM - 11:25 PM	54.6	55.6	-	n/a	49.0	-
11:25 PM - 11:30 PM	52.3	53.9	-	n/a	49.6	-
11:30 PM - 11:35 PM	52.9	52.1	-	48.2	49.5	-1.3
11:35 PM - 11:40 PM	53.0	52.7	-	44.2	49.2	-5.0
11:40 PM - 11:45 PM	60.0	55.8	-	60.9	52.8	8.1
11:45 PM - 11:50 PM	52.4	52.5	-	n/a	49.0	-
11:50 PM - 11:55 PM	54.0	56.2	-	n/a	51.5	-
11:55 PM - 12:00 AM	52.7	53.0	-	n/a	49.6	-
12:00 AM - 12:05 AM	59.3	57.9	-	56.7	53.9	2.8
12:05 AM - 12:10 AM	53.0	52.7	-	44.2	46.7	-2.5
12:10 AM - 12:15 AM	53.5	52.1	-	50.9	48.1	2.8
12:15 AM - 12:20 AM	52.0	53.5	-	n/a	47.9	-
12:20 AM - 12:25 AM	51.3	52.8	-	n/a	48.7	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957075-1

Sample No. 2432535-5
Parameter เสียงรบกวน
Location บ้านนาตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	52.0	53.7	-	n/a	49.4	-
12:30 AM - 12:35 AM	51.0	54.4	-	n/a	49.6	-
12:35 AM - 12:40 AM	52.8	51.9	-	48.5	48.5	0.0
12:40 AM - 12:45 AM	51.7	54.1	-	n/a	49.4	-
12:45 AM - 12:50 AM	51.6	52.3	-	n/a	49.1	-
12:50 AM - 12:55 AM	51.8	55.5	-	n/a	49.2	-
12:55 AM - 01:00 AM	52.3	52.4	-	n/a	49.5	-
01:00 AM - 01:05 AM	51.1	54.4	-	n/a	49.7	-
01:05 AM - 01:10 AM	51.6	54.9	-	n/a	48.8	-
01:10 AM - 01:15 AM	52.6	55.6	-	n/a	49.3	-
01:15 AM - 01:20 AM	51.2	55.1	-	n/a	50.6	-
01:20 AM - 01:25 AM	53.4	55.6	-	n/a	50.9	-
01:25 AM - 01:30 AM	50.6	57.9	-	n/a	49.8	-
01:30 AM - 01:35 AM	52.6	53.4	-	n/a	50.6	-
01:35 AM - 01:40 AM	51.4	52.5	-	n/a	49.7	-
01:40 AM - 01:45 AM	49.6	53.5	-	n/a	48.8	-
01:45 AM - 01:50 AM	52.2	54.4	-	n/a	49.2	-
01:50 AM - 01:55 AM	51.2	56.4	-	n/a	50.2	-
01:55 AM - 02:00 AM	50.9	53.3	-	n/a	47.3	-
02:00 AM - 02:05 AM	54.9	54.4	-	48.3	47.2	1.1
02:05 AM - 02:10 AM	51.9	52.3	-	n/a	46.8	-
02:10 AM - 02:15 AM	50.6	51.6	-	n/a	47.1	-
02:15 AM - 02:20 AM	50.3	51.2	-	n/a	47.5	-
02:20 AM - 02:25 AM	50.5	53.5	-	n/a	47.7	-
02:25 AM - 02:30 AM	52.8	51.0	-	51.1	46.7	4.4
02:30 AM - 02:35 AM	52.3	51.9	-	44.7	47.5	-2.8
02:35 AM - 02:40 AM	50.4	49.9	-	43.8	46.9	-3.1
02:40 AM - 02:45 AM	50.9	56.7	-	n/a	47.6	-
02:45 AM - 02:50 AM	50.0	54.6	-	n/a	48.5	-
02:50 AM - 02:55 AM	50.0	50.8	-	n/a	47.0	-
02:55 AM - 03:00 AM	50.3	50.1	-	39.8	46.8	-7.0
03:00 AM - 03:05 AM	50.2	52.0	-	n/a	47.0	-
03:05 AM - 03:10 AM	50.5	48.8	-	48.6	45.5	3.1
03:10 AM - 03:15 AM	49.2	48.6	-	43.3	45.6	-2.3
03:15 AM - 03:20 AM	50.8	52.7	-	n/a	46.5	-
03:20 AM - 03:25 AM	52.6	54.5	-	n/a	47.4	-
03:25 AM - 03:30 AM	50.6	50.6	-	n/a	46.2	-
03:30 AM - 03:35 AM	49.6	51.8	-	n/a	46.4	-
03:35 AM - 03:40 AM	51.3	51.3	-	n/a	47.1	-
03:40 AM - 03:45 AM	51.8	51.6	-	41.3	45.5	-4.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-5
Parameter เสียงรบกวน
Location บ้านนาตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.0	52.8	-	n/a	45.7	-
03:50 AM - 03:55 AM	49.5	48.7	-	44.8	45.3	-0.5
03:55 AM - 04:00 AM	50.1	49.8	-	41.3	46.2	-4.9
04:00 AM - 04:05 AM	49.4	50.5	-	n/a	45.6	-
04:05 AM - 04:10 AM	49.4	54.4	-	n/a	47.0	-
04:10 AM - 04:15 AM	48.8	53.9	-	n/a	47.6	-
04:15 AM - 04:20 AM	52.0	54.0	-	n/a	45.5	-
04:20 AM - 04:25 AM	51.5	51.5	-	n/a	47.6	-
04:25 AM - 04:30 AM	49.5	52.1	-	n/a	46.3	-
04:30 AM - 04:35 AM	49.2	49.8	-	n/a	46.5	-
04:35 AM - 04:40 AM	50.7	49.2	-	48.4	45.6	2.8
04:40 AM - 04:45 AM	49.5	49.4	-	36.1	45.8	-9.7
04:45 AM - 04:50 AM	49.1	52.2	-	n/a	46.6	-
04:50 AM - 04:55 AM	49.0	52.6	-	n/a	47.3	-
04:55 AM - 05:00 AM	52.9	50.2	-	52.6	45.3	7.3
05:00 AM - 05:05 AM	50.0	49.0	-	46.1	45.9	0.2
05:05 AM - 05:10 AM	49.2	49.6	-	n/a	46.4	-
05:10 AM - 05:15 AM	49.6	51.1	-	n/a	45.9	-
05:15 AM - 05:20 AM	50.3	51.3	-	n/a	46.4	-
05:20 AM - 05:25 AM	48.3	50.1	-	n/a	46.3	-
05:25 AM - 05:30 AM	49.5	49.8	-	n/a	46.8	-
05:30 AM - 05:35 AM	48.8	50.3	-	n/a	47.2	-
05:35 AM - 05:40 AM	49.7	50.3	-	n/a	47.0	-
05:40 AM - 05:45 AM	54.9	52.1	-	54.7	47.7	7.0
05:45 AM - 05:50 AM	51.2	51.2	-	n/a	46.2	-
05:50 AM - 05:55 AM	54.4	52.9	-	52.1	47.3	4.8
05:55 AM - 06:00 AM	51.5	49.6	-	50.0	44.9	5.1
06:00 AM - 07:00 AM	53.1	53.3	n/a	-	46.3	-
07:00 AM - 08:00 AM	53.8	52.4	48.2	-	47.8	0.4
08:00 AM - 09:00 AM	55.7	55.1	46.8	-	48.7	-1.9
09:00 AM - 10:00 AM	55.4	54.1	49.5	-	49.1	0.4
10:00 AM - 11:00 AM	53.9	54.9	n/a	-	50.1	-

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดของเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทดสอบตรวจวัด วันที่ 06-07 เมษายน 2567
- ระดับเสียงพื้นฐานและค่าระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432544-5 วันที่ตรวจวัด 06-07 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดมีค่าต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-6
Parameter เสียงรบกวน
Location บ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957076-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	54.3	51.9	50.6	-	47.4	3.2
12:00 PM - 01:00 PM	55.6	54.2	50.0	-	48.1	1.9
01:00 PM - 02:00 PM	53.8	52.6	47.6	-	47.0	0.6
02:00 PM - 03:00 PM	55.7	55.1	46.8	-	49.1	-2.3
03:00 PM - 04:00 PM	56.1	54.3	51.4	-	48.1	3.3
04:00 PM - 05:00 PM	55.2	53.4	50.5	-	48.8	1.7
05:00 PM - 06:00 PM	54.5	53.4	48.0	-	47.8	0.2
06:00 PM - 07:00 PM	55.8	53.8	51.5	-	48.8	2.7
07:00 PM - 08:00 PM	55.8	54.6	49.6	-	49.3	0.3
08:00 PM - 09:00 PM	55.8	54.2	50.7	-	50.9	-0.2
09:00 PM - 10:00 PM	54.5	54.0	44.9	-	51.3	-6.4
10:00 PM - 10:05 PM	52.8	52.9	-	n/a	48.0	-
10:05 PM - 10:10 PM	53.3	51.7	-	51.2	48.4	2.8
10:10 PM - 10:15 PM	52.8	52.5	-	44.0	48.8	-4.8
10:15 PM - 10:20 PM	52.6	49.7	-	52.5	48.1	4.4
10:20 PM - 10:25 PM	55.9	53.9	-	54.6	48.3	6.3
10:25 PM - 10:30 PM	52.0	51.9	-	38.6	46.5	-7.9
10:30 PM - 10:35 PM	54.7	52.6	-	53.5	47.4	6.1
10:35 PM - 10:40 PM	54.8	52.9	-	53.3	48.0	5.3
10:40 PM - 10:45 PM	51.3	50.6	-	46.0	48.3	-2.3
10:45 PM - 10:50 PM	53.2	52.1	-	49.7	49.1	0.6
10:50 PM - 10:55 PM	52.9	52.6	-	44.1	49.6	-5.5
10:55 PM - 11:00 PM	52.6	51.9	-	47.3	49.9	-2.6
11:00 PM - 11:05 PM	52.1	52.5	-	n/a	50.0	-
11:05 PM - 11:10 PM	52.7	52.9	-	n/a	50.1	-
11:10 PM - 11:15 PM	57.8	56.8	-	53.9	50.2	3.7
11:15 PM - 11:20 PM	52.4	54.2	-	n/a	51.8	-
11:20 PM - 11:25 PM	51.5	52.9	-	n/a	49.6	-
11:25 PM - 11:30 PM	52.6	51.2	-	50.0	48.5	1.5
11:30 PM - 11:35 PM	54.3	54.7	-	n/a	49.8	-
11:35 PM - 11:40 PM	52.9	52.8	-	39.5	48.1	-8.6
11:40 PM - 11:45 PM	52.8	51.9	-	48.5	49.1	-0.6
11:45 PM - 11:50 PM	51.3	51.1	-	40.8	47.9	-7.1
11:50 PM - 11:55 PM	52.1	52.4	-	n/a	49.1	-
11:55 PM - 12:00 AM	51.4	51.9	-	n/a	49.3	-
12:00 AM - 12:05 AM	54.7	53.4	-	51.8	48.8	3.0
12:05 AM - 12:10 AM	50.4	50.2	-	39.9	47.9	-8.0
12:10 AM - 12:15 AM	52.5	50.5	-	51.2	47.0	4.2
12:15 AM - 12:20 AM	50.8	51.5	-	n/a	49.0	-
12:20 AM - 12:25 AM	50.6	50.2	-	43.0	47.5	-4.5

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdieng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432535-6
Parameter เสียงรบกวน
Location บ้านนาบตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957076-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.4	51.8	-	n/a	49.5	-
12:30 AM - 12:35 AM	51.2	51.0	-	40.7	46.6	-5.9
12:35 AM - 12:40 AM	52.1	49.8	-	51.2	46.5	4.7
12:40 AM - 12:45 AM	51.4	51.0	-	43.8	47.4	-3.6
12:45 AM - 12:50 AM	50.5	50.6	-	n/a	47.8	-
12:50 AM - 12:55 AM	51.1	50.2	-	46.8	47.0	-0.2
12:55 AM - 01:00 AM	50.0	49.0	-	46.1	46.5	-0.4
01:00 AM - 01:05 AM	52.2	49.3	-	52.1	46.8	5.3
01:05 AM - 01:10 AM	51.2	50.4	-	46.5	45.8	0.7
01:10 AM - 01:15 AM	52.2	51.0	-	49.0	46.1	2.9
01:15 AM - 01:20 AM	50.7	48.2	-	50.1	45.2	4.9
01:20 AM - 01:25 AM	50.8	49.9	-	46.5	46.8	-0.3
01:25 AM - 01:30 AM	52.7	49.7	-	52.7	46.1	6.6
01:30 AM - 01:35 AM	50.3	49.1	-	47.1	45.6	1.5
01:35 AM - 01:40 AM	51.2	49.0	-	50.2	46.1	4.1
01:40 AM - 01:45 AM	51.5	51.3	-	41.0	47.6	-6.6
01:45 AM - 01:50 AM	50.3	51.1	-	n/a	47.8	-
01:50 AM - 01:55 AM	51.7	52.5	-	n/a	48.7	-
01:55 AM - 02:00 AM	49.8	49.9	-	n/a	47.0	-
02:00 AM - 02:05 AM	50.2	49.7	-	43.6	47.0	-3.4
02:05 AM - 02:10 AM	49.9	49.9	-	n/a	47.6	-
02:10 AM - 02:15 AM	50.5	50.0	-	43.9	47.2	-3.3
02:15 AM - 02:20 AM	51.9	51.4	-	45.3	48.6	-3.3
02:20 AM - 02:25 AM	53.5	52.8	-	48.2	48.4	-0.2
02:25 AM - 02:30 AM	51.4	50.2	-	48.2	46.7	1.5
02:30 AM - 02:35 AM	50.4	50.6	-	n/a	42.7	-
02:35 AM - 02:40 AM	50.3	49.8	-	43.7	47.0	-3.3
02:40 AM - 02:45 AM	50.2	50.5	-	n/a	48.0	-
02:45 AM - 02:50 AM	54.0	53.0	-	50.1	47.6	2.5
02:50 AM - 02:55 AM	49.2	49.3	-	n/a	46.3	-
02:55 AM - 03:00 AM	52.1	51.7	-	44.5	46.6	-2.1
03:00 AM - 03:05 AM	50.4	49.6	-	45.7	46.5	-0.8
03:05 AM - 03:10 AM	49.5	49.9	-	n/a	47.8	-
03:10 AM - 03:15 AM	50.0	50.8	-	n/a	48.1	-
03:15 AM - 03:20 AM	49.2	49.8	-	n/a	47.2	-
03:20 AM - 03:25 AM	49.2	50.2	-	n/a	47.6	-
03:25 AM - 03:30 AM	50.5	50.8	-	n/a	47.4	-
03:30 AM - 03:35 AM	48.6	50.7	-	n/a	48.4	-
03:35 AM - 03:40 AM	48.6	49.5	-	n/a	46.6	-
03:40 AM - 03:45 AM	48.6	49.2	-	n/a	45.6	-

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdieng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957076-1

Page 3 of 3

Sample No. 2432535-6
Parameter เสียงรบกวน
Location บ้านนาบยา (GPS: 47P 0734560, 1408527)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	47.8	49.4	-	ก/อ	46.2	-
03:50 AM - 03:55 AM	53.1	49.1	-	53.9	45.5	8.4
03:55 AM - 04:00 AM	50.4	52.6	-	ก/อ	47.4	-
04:00 AM - 04:05 AM	48.7	47.7	-	44.8	44.5	0.3
04:05 AM - 04:10 AM	48.4	46.5	-	46.9	44.3	2.6
04:10 AM - 04:15 AM	48.4	46.5	-	46.9	44.5	2.4
04:15 AM - 04:20 AM	49.5	46.9	-	49.0	44.2	4.8
04:20 AM - 04:25 AM	49.7	48.6	-	46.2	44.7	1.5
04:25 AM - 04:30 AM	51.7	49.2	-	51.1	44.3	6.8
04:30 AM - 04:35 AM	48.5	47.7	-	43.8	44.7	-0.9
04:35 AM - 04:40 AM	48.1	46.6	-	45.8	44.2	1.6
04:40 AM - 04:45 AM	48.3	46.2	-	47.1	43.5	3.6
04:45 AM - 04:50 AM	48.1	46.0	-	46.9	43.5	3.4
04:50 AM - 04:55 AM	48.1	45.4	-	47.8	43.1	4.7
04:55 AM - 05:00 AM	48.5	44.6	-	49.2	42.6	6.6
05:00 AM - 05:05 AM	48.8	46.3	-	48.2	43.6	4.6
05:05 AM - 05:10 AM	50.0	47.6	-	49.3	43.5	5.8
05:10 AM - 05:15 AM	48.6	45.9	-	48.3	42.9	5.4
05:15 AM - 05:20 AM	48.2	46.5	-	46.3	43.8	2.5
05:20 AM - 05:25 AM	49.9	46.6	-	50.2	44.0	6.2
05:25 AM - 05:30 AM	48.1	46.3	-	46.4	43.6	2.8
05:30 AM - 05:35 AM	48.7	46.5	-	47.7	42.8	4.9
05:35 AM - 05:40 AM	48.7	45.8	-	48.6	42.0	6.6
05:40 AM - 05:45 AM	51.3	48.7	-	50.8	42.8	8.0
05:45 AM - 05:50 AM	47.6	44.9	-	47.3	42.2	5.1
05:50 AM - 05:55 AM	48.1	44.7	-	48.4	42.4	6.0
05:55 AM - 06:00 AM	48.6	45.8	-	48.4	42.1	6.3
06:00 AM - 07:00 AM	49.9	47.8	45.7	-	42.9	2.8
07:00 AM - 08:00 AM	53.1	51.8	47.2	-	46.2	1.0
08:00 AM - 09:00 AM	55.1	53.6	49.8	-	48.4	1.4
09:00 AM - 10:00 AM	55.5	53.8	50.6	-	48.9	1.7
10:00 AM - 11:00 AM	54.5	53.1	48.9	-	47.3	1.6
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ที่การตรวจวัด วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432544-6 วันที่ตรวจวัด 07-08 เมษายน 2567)
- ก/อ: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957077-1

Page 1 of 3

Sample No. 2432535-7
Parameter เสียงรบกวน
Location บ้านนาบยา (GPS: 47P 0734560, 1408527)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	56.2	54.1	52.0	-	49.0	3.0
12:00 PM - 01:00 PM	53.9	51.6	50.0	-	46.6	3.4
01:00 PM - 02:00 PM	53.6	53.2	43.0	-	47.4	-4.4
02:00 PM - 03:00 PM	54.3	53.2	47.8	-	47.8	0.0
03:00 PM - 04:00 PM	53.3	50.9	49.6	-	45.9	3.7
04:00 PM - 05:00 PM	53.3	51.4	48.8	-	46.8	2.0
05:00 PM - 06:00 PM	56.2	55.3	48.9	-	49.3	-0.4
06:00 PM - 07:00 PM	55.2	53.7	49.9	-	49.4	0.5
07:00 PM - 08:00 PM	55.7	53.9	51.0	-	51.4	-0.4
08:00 PM - 09:00 PM	53.6	53.1	44.0	-	49.9	-5.9
09:00 PM - 10:00 PM	52.9	51.7	46.7	-	47.6	-0.9
10:00 PM - 10:05 PM	54.2	50.8	-	54.5	48.4	6.1
10:05 PM - 10:10 PM	53.2	53.7	-	ก/อ	48.4	-
10:10 PM - 10:15 PM	53.0	52.0	-	49.1	49.0	0.1
10:15 PM - 10:20 PM	52.3	52.2	-	38.9	48.9	-10.0
10:20 PM - 10:25 PM	50.8	50.7	-	37.4	48.0	-10.6
10:25 PM - 10:30 PM	53.1	49.3	-	53.8	47.1	6.7
10:30 PM - 10:35 PM	51.5	51.4	-	38.1	47.7	-9.6
10:35 PM - 10:40 PM	51.1	50.0	-	47.6	47.8	-0.2
10:40 PM - 10:45 PM	51.6	49.8	-	49.9	46.9	3.0
10:45 PM - 10:50 PM	50.9	49.4	-	48.6	46.2	2.4
10:50 PM - 10:55 PM	51.6	49.5	-	50.4	47.2	3.2
10:55 PM - 11:00 PM	50.9	49.8	-	47.4	47.5	-0.1
11:00 PM - 11:05 PM	50.8	50.5	-	42.0	48.2	-6.2
11:05 PM - 11:10 PM	51.1	50.1	-	47.2	48.4	-1.2
11:10 PM - 11:15 PM	50.8	50.6	-	40.3	49.0	-8.7
11:15 PM - 11:20 PM	51.5	50.5	-	47.6	48.5	-0.9
11:20 PM - 11:25 PM	53.1	49.5	-	53.6	46.2	7.4
11:25 PM - 11:30 PM	50.6	51.8	-	ก/อ	47.9	-
11:30 PM - 11:35 PM	53.6	48.7	-	54.9	46.1	8.8
11:35 PM - 11:40 PM	54.0	51.3	-	53.7	46.3	7.4
11:40 PM - 11:45 PM	52.7	52.8	-	ก/อ	46.5	-
11:45 PM - 11:50 PM	53.8	49.8	-	54.6	46.8	7.8
11:50 PM - 11:55 PM	51.4	51.9	-	ก/อ	45.9	-
11:55 PM - 12:00 AM	50.6	50.0	-	44.7	47.9	-3.2
12:00 AM - 12:05 AM	51.6	48.6	-	51.6	46.7	4.9
12:05 AM - 12:10 AM	52.8	50.1	-	52.5	47.2	5.3
12:10 AM - 12:15 AM	50.4	51.7	-	ก/อ	47.8	-
12:15 AM - 12:20 AM	50.7	49.9	-	46.0	47.1	-1.1
12:20 AM - 12:25 AM	50.4	49.3	-	46.9	46.2	0.7

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957077-1

Sample No. 2432535-7
Parameter เสียงรบกวน
Location บ้านบางตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.8	48.2	-	52.3	45.6	6.7
12:30 AM - 12:35 AM	50.4	49.7	-	45.1	46.0	-0.9
12:35 AM - 12:40 AM	50.2	48.2	-	48.9	44.4	4.5
12:40 AM - 12:45 AM	51.1	47.8	-	51.4	44.1	7.3
12:45 AM - 12:50 AM	49.9	50.1	-	n/a	45.0	-
12:50 AM - 12:55 AM	50.0	46.9	-	50.1	44.9	5.2
12:55 AM - 01:00 AM	49.2	47.3	-	47.7	45.0	2.7
01:00 AM - 01:05 AM	49.8	47.2	-	49.3	45.4	3.9
01:05 AM - 01:10 AM	50.1	47.7	-	49.4	45.7	3.7
01:10 AM - 01:15 AM	49.0	48.4	-	43.1	45.4	-2.3
01:15 AM - 01:20 AM	50.2	46.4	-	50.9	44.3	6.6
01:20 AM - 01:25 AM	50.4	48.0	-	49.7	45.0	4.7
01:25 AM - 01:30 AM	49.6	47.4	-	48.6	44.5	4.1
01:30 AM - 01:35 AM	49.4	47.1	-	48.5	45.1	3.4
01:35 AM - 01:40 AM	49.4	46.7	-	49.1	44.2	4.9
01:40 AM - 01:45 AM	50.7	47.3	-	51.0	44.3	6.7
01:45 AM - 01:50 AM	49.3	47.6	-	47.4	43.5	3.9
01:50 AM - 01:55 AM	52.9	49.8	-	53.0	45.0	8.0
01:55 AM - 02:00 AM	51.3	52.4	-	n/a	48.2	-
02:00 AM - 02:05 AM	49.0	50.4	-	n/a	47.1	-
02:05 AM - 02:10 AM	48.3	49.8	-	n/a	46.9	-
02:10 AM - 02:15 AM	49.6	49.4	-	39.1	46.1	-7.0
02:15 AM - 02:20 AM	48.0	49.4	-	n/a	46.0	-
02:20 AM - 02:25 AM	48.4	48.7	-	n/a	44.5	-
02:25 AM - 02:30 AM	48.1	46.7	-	45.5	43.0	2.5
02:30 AM - 02:35 AM	47.4	45.0	-	46.7	42.8	3.9
02:35 AM - 02:40 AM	49.5	53.5	-	n/a	43.3	-
02:40 AM - 02:45 AM	49.4	45.5	-	50.1	43.5	6.6
02:45 AM - 02:50 AM	50.1	45.9	-	51.0	43.3	7.7
02:50 AM - 02:55 AM	49.3	46.1	-	49.5	42.9	6.6
02:55 AM - 03:00 AM	49.1	45.5	-	49.6	42.9	6.7
03:00 AM - 03:05 AM	50.3	45.4	-	51.6	43.6	8.0
03:05 AM - 03:10 AM	48.6	47.1	-	46.3	42.9	3.4
03:10 AM - 03:15 AM	47.7	44.9	-	47.5	42.8	4.7
03:15 AM - 03:20 AM	47.8	44.0	-	48.5	41.6	6.9
03:20 AM - 03:25 AM	49.7	45.0	-	50.9	42.7	8.2
03:25 AM - 03:30 AM	49.5	48.1	-	46.9	45.3	1.6
03:30 AM - 03:35 AM	48.8	47.8	-	44.9	44.5	0.4
03:35 AM - 03:40 AM	49.2	47.3	-	47.7	44.8	2.9
03:40 AM - 03:45 AM	52.3	46.8	-	53.9	44.0	9.9

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432535
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957077-1

Sample No. 2432535-7
Parameter เสียงรบกวน
Location บ้านบางตา (GPS 47P 0734560, 1408527)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764923

Page 3 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	48.4	49.4	-	n/a	43.3	-
03:50 AM - 03:55 AM	48.6	45.2	-	48.9	41.9	7.0
03:55 AM - 04:00 AM	48.7	43.6	-	50.1	40.9	9.2
04:00 AM - 04:05 AM	48.9	44.8	-	49.8	41.3	8.5
04:05 AM - 04:10 AM	48.7	45.3	-	49.0	41.8	7.2
04:10 AM - 04:15 AM	48.1	45.3	-	47.9	42.0	5.9
04:15 AM - 04:20 AM	48.7	45.1	-	49.2	41.9	7.3
04:20 AM - 04:25 AM	48.2	44.2	-	49.0	40.8	8.2
04:25 AM - 04:30 AM	47.8	44.9	-	47.7	41.4	6.3
04:30 AM - 04:35 AM	48.2	48.7	-	n/a	41.6	-
04:35 AM - 04:40 AM	48.4	45.0	-	48.7	41.4	7.3
04:40 AM - 04:45 AM	49.5	46.0	-	49.9	42.6	7.3
04:45 AM - 04:50 AM	48.2	46.5	-	46.3	42.3	4.0
04:50 AM - 04:55 AM	48.3	45.4	-	48.2	41.3	6.9
04:55 AM - 05:00 AM	47.8	46.3	-	45.5	40.6	4.9
05:00 AM - 05:05 AM	48.7	51.6	-	n/a	41.7	-
05:05 AM - 05:10 AM	50.1	50.4	-	n/a	42.8	-
05:10 AM - 05:15 AM	49.8	47.1	-	49.5	42.5	7.0
05:15 AM - 05:20 AM	50.2	47.2	-	50.2	42.5	7.7
05:20 AM - 05:25 AM	50.5	49.2	-	47.6	43.1	4.5
05:25 AM - 05:30 AM	49.0	46.6	-	48.3	41.7	6.6
05:30 AM - 05:35 AM	47.7	46.1	-	45.6	41.5	4.1
05:35 AM - 05:40 AM	51.9	51.8	-	38.5	42.5	-4.0
05:40 AM - 05:45 AM	49.6	49.7	-	n/a	41.7	-
05:45 AM - 05:50 AM	52.8	50.8	-	51.5	44.9	6.6
05:50 AM - 05:55 AM	53.0	50.4	-	52.5	45.6	6.9
05:55 AM - 06:00 AM	53.5	50.2	-	53.8	45.0	8.8
06:00 AM - 07:00 AM	53.5	52.1	47.9	-	47.0	0.9
07:00 AM - 08:00 AM	55.4	53.7	50.5	-	49.2	1.3
08:00 AM - 09:00 AM	56.4	56.3	40.0	-	48.9	-8.9
09:00 AM - 10:00 AM	53.7	53.2	44.1	-	48.3	-4.2
10:00 AM - 11:00 AM	53.4	51.3	49.2	-	46.3	2.9

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงพิชทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พักการตรวจวัด วันที่ 08-09 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432544-7 วันที่ตรวจวัด 08-09 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

Approved by

Wilawan
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-1
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957019-1

Page 1 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	66.3	64.4	61.8	-	63.6	-1.8
01:00 PM - 02:00 PM	66.1	64.4	61.2	-	63.6	-2.4
02:00 PM - 03:00 PM	66.5	64.4	62.3	-	63.7	-1.4
03:00 PM - 04:00 PM	66.0	64.5	60.7	-	63.7	-3.0
04:00 PM - 05:00 PM	65.8	64.8	58.9	-	64.0	-5.1
05:00 PM - 06:00 PM	66.1	64.6	60.8	-	63.9	-3.1
06:00 PM - 07:00 PM	66.0	64.8	59.8	-	63.9	-4.1
07:00 PM - 08:00 PM	66.0	64.3	61.1	-	63.8	-2.7
08:00 PM - 09:00 PM	65.2	64.1	58.7	-	63.7	-5.0
09:00 PM - 10:00 PM	65.5	64.1	59.9	-	63.6	-3.7
10:00 PM - 10:05 PM	66.2	64.7	-	63.9	63.7	0.2
10:05 PM - 10:10 PM	65.2	64.1	-	61.7	63.7	-2.0
10:10 PM - 10:15 PM	65.4	64.1	-	62.5	63.7	-1.2
10:15 PM - 10:20 PM	65.2	64.0	-	62.0	63.5	-1.5
10:20 PM - 10:25 PM	65.2	64.0	-	62.0	63.5	-1.5
10:25 PM - 10:30 PM	65.3	64.2	-	61.8	63.6	-1.8
10:30 PM - 10:35 PM	65.3	64.3	-	61.4	63.6	-2.2
10:35 PM - 10:40 PM	65.3	64.1	-	62.1	63.6	-1.5
10:40 PM - 10:45 PM	65.2	64.0	-	62.0	63.6	-1.6
10:45 PM - 10:50 PM	65.2	64.1	-	61.7	63.7	-2.0
10:50 PM - 10:55 PM	65.6	64.2	-	63.0	63.7	-0.7
10:55 PM - 11:00 PM	65.3	64.0	-	62.4	63.6	-1.2
11:00 PM - 11:05 PM	65.2	64.1	-	61.7	63.7	-2.0
11:05 PM - 11:10 PM	65.3	64.2	-	61.8	63.8	-2.0
11:10 PM - 11:15 PM	65.1	64.6	-	58.5	64.1	-5.6
11:15 PM - 11:20 PM	65.2	64.5	-	59.9	64.0	-4.1
11:20 PM - 11:25 PM	65.3	64.3	-	61.4	63.8	-2.4
11:25 PM - 11:30 PM	65.3	64.3	-	61.4	63.8	-2.4
11:30 PM - 11:35 PM	65.2	64.1	-	61.7	63.7	-2.0
11:35 PM - 11:40 PM	65.1	64.2	-	60.8	63.7	-2.9
11:40 PM - 11:45 PM	65.2	64.3	-	60.9	63.8	-2.9
11:45 PM - 11:50 PM	65.3	64.3	-	61.4	63.8	-2.4
11:50 PM - 11:55 PM	65.2	64.2	-	61.3	63.8	-2.5
11:55 PM - 12:00 AM	65.3	64.1	-	62.1	63.6	-1.5
12:00 AM - 12:05 AM	65.4	64.2	-	62.2	63.7	-1.5
12:05 AM - 12:10 AM	65.5	64.3	-	62.3	63.8	-1.5
12:10 AM - 12:15 AM	65.4	64.1	-	62.5	63.7	-1.2
12:15 AM - 12:20 AM	65.5	64.2	-	62.6	63.7	-1.1
12:20 AM - 12:25 AM	65.4	64.1	-	62.5	63.7	-1.2
12:25 AM - 12:30 AM	65.3	64.1	-	62.1	63.7	-1.6

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-1
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957019-1

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	65.3	64.2	-	61.8	63.7	-1.9
12:35 AM - 12:40 AM	65.3	64.1	-	62.1	63.7	-1.6
12:40 AM - 12:45 AM	65.4	64.5	-	61.1	63.9	-2.8
12:45 AM - 12:50 AM	65.4	64.3	-	61.9	63.7	-1.8
12:50 AM - 12:55 AM	65.3	64.7	-	59.4	64.0	-4.6
12:55 AM - 01:00 AM	65.3	64.6	-	60.0	63.9	-3.9
01:00 AM - 01:05 AM	65.4	64.6	-	60.7	63.8	-3.1
01:05 AM - 01:10 AM	65.4	64.3	-	61.9	63.8	-1.9
01:10 AM - 01:15 AM	65.9	64.3	-	63.8	63.8	0.0
01:15 AM - 01:20 AM	66.0	64.2	-	64.3	63.8	0.5
01:20 AM - 01:25 AM	66.0	64.1	-	64.5	63.7	0.8
01:25 AM - 01:30 AM	66.1	64.1	-	64.8	63.7	1.1
01:30 AM - 01:35 AM	66.1	64.1	-	64.8	63.7	1.1
01:35 AM - 01:40 AM	66.2	64.2	-	64.9	63.8	1.1
01:40 AM - 01:45 AM	66.2	64.1	-	65.0	63.8	1.2
01:45 AM - 01:50 AM	66.2	64.2	-	64.9	63.7	1.2
01:50 AM - 01:55 AM	66.2	64.1	-	65.0	63.7	1.3
01:55 AM - 02:00 AM	66.2	64.3	-	64.7	63.9	0.8
02:00 AM - 02:05 AM	66.0	64.4	-	63.9	64.1	-0.2
02:05 AM - 02:10 AM	66.0	64.2	-	64.3	63.8	0.5
02:10 AM - 02:15 AM	66.0	64.3	-	64.1	63.9	0.2
02:15 AM - 02:20 AM	65.9	64.5	-	63.3	64.0	-0.7
02:20 AM - 02:25 AM	65.9	64.2	-	64.0	63.8	0.2
02:25 AM - 02:30 AM	66.0	64.0	-	64.7	63.7	1.0
02:30 AM - 02:35 AM	66.0	64.1	-	64.5	63.7	0.8
02:35 AM - 02:40 AM	66.0	64.0	-	64.7	63.7	1.0
02:40 AM - 02:45 AM	66.0	64.2	-	64.3	63.8	0.5
02:45 AM - 02:50 AM	65.9	64.1	-	64.2	63.7	0.5
02:50 AM - 02:55 AM	66.0	64.1	-	64.5	63.8	0.7
02:55 AM - 03:00 AM	66.1	64.4	-	64.2	63.9	0.3
03:00 AM - 03:05 AM	66.0	64.2	-	64.3	63.9	0.4
03:05 AM - 03:10 AM	66.1	64.2	-	64.6	63.8	0.8
03:10 AM - 03:15 AM	66.1	64.3	-	64.4	63.9	0.5
03:15 AM - 03:20 AM	66.0	64.2	-	64.3	63.8	0.5
03:20 AM - 03:25 AM	66.1	64.2	-	64.6	63.8	0.8
03:25 AM - 03:30 AM	66.0	64.3	-	64.1	63.9	0.2
03:30 AM - 03:35 AM	66.0	64.4	-	63.9	63.9	0.0
03:35 AM - 03:40 AM	66.1	64.3	-	64.4	63.8	0.6
03:40 AM - 03:45 AM	66.0	64.3	-	64.1	63.9	0.2
03:45 AM - 03:50 AM	66.1	64.3	-	64.4	63.9	0.5

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957019-1

Page 3 of 3

Sample No. 2432594-1
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	66.3	64.4	-	64.8	63.9	0.9
03:55 AM - 04:00 AM	66.1	64.2	-	64.6	63.8	0.8
04:00 AM - 04:05 AM	65.9	64.2	-	64.0	63.9	0.1
04:05 AM - 04:10 AM	66.0	64.3	-	64.1	63.8	0.3
04:10 AM - 04:15 AM	65.7	64.4	-	62.8	64.0	-1.2
04:15 AM - 04:20 AM	65.7	64.5	-	62.5	64.0	-1.5
04:20 AM - 04:25 AM	65.7	64.3	-	63.1	63.8	-0.7
04:25 AM - 04:30 AM	65.9	64.4	-	63.6	64.0	-0.4
04:30 AM - 04:35 AM	65.7	64.2	-	63.4	63.8	-0.4
04:35 AM - 04:40 AM	65.7	64.4	-	62.8	64.0	-1.2
04:40 AM - 04:45 AM	65.8	64.4	-	63.2	64.0	-0.8
04:45 AM - 04:50 AM	65.9	64.3	-	63.8	63.9	-0.1
04:50 AM - 04:55 AM	65.7	64.3	-	63.1	63.9	-0.8
04:55 AM - 05:00 AM	65.8	64.4	-	63.2	63.9	-0.7
05:00 AM - 05:05 AM	65.8	64.3	-	63.5	63.8	-0.3
05:05 AM - 05:10 AM	65.8	64.4	-	63.2	63.9	-0.7
05:10 AM - 05:15 AM	65.9	64.3	-	63.8	63.9	-0.1
05:15 AM - 05:20 AM	65.9	64.4	-	63.6	63.9	-0.3
05:20 AM - 05:25 AM	65.8	64.4	-	63.2	63.9	-0.7
05:25 AM - 05:30 AM	65.8	64.4	-	63.2	63.9	-0.7
05:30 AM - 05:35 AM	65.9	64.3	-	63.8	63.8	0.0
05:35 AM - 05:40 AM	65.8	64.9	-	61.5	63.9	-2.4
05:40 AM - 05:45 AM	65.8	64.5	-	62.9	64.0	-1.1
05:45 AM - 05:50 AM	65.8	64.9	-	61.5	64.0	-2.5
05:50 AM - 05:55 AM	65.9	64.6	-	63.0	63.9	-0.9
05:55 AM - 06:00 AM	65.8	65.1	-	60.5	64.0	-3.5
06:00 AM - 07:00 AM	65.9	65.3	57.0	-	63.9	-6.9
07:00 AM - 08:00 AM	66.1	64.6	60.8	-	63.6	-2.8
08:00 AM - 09:00 AM	65.5	64.5	58.6	-	63.5	-4.9
09:00 AM - 10:00 AM	66.0	64.8	59.8	-	63.5	-3.7
10:00 AM - 11:00 AM	65.5	64.3	59.3	-	63.5	-4.2
11:00 AM - 12:00 PM	65.6	64.3	59.7	-	63.5	-3.8
ค่ามาตรฐาน						≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานระดับเสียงทางเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด ทิศการตรวจวัด วันที่ 02-03 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432591-1 วันที่ตรวจวัด 02-03 เมษายน 2567)
3. หมายเหตุ: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) through its recommendations that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957020-1

Page 1 of 3

Sample No. 2432594-2
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.7	64.5	59.5	-	63.5	-4.0
01:00 PM - 02:00 PM	65.5	64.2	59.6	-	63.5	-3.9
02:00 PM - 03:00 PM	65.8	64.3	60.5	-	63.6	-3.1
03:00 PM - 04:00 PM	65.4	64.5	58.1	-	63.5	-5.4
04:00 PM - 05:00 PM	65.8	64.6	59.6	-	63.8	-4.2
05:00 PM - 06:00 PM	65.9	64.7	59.7	-	63.9	-4.2
06:00 PM - 07:00 PM	66.1	64.9	59.9	-	64.0	-4.1
07:00 PM - 08:00 PM	65.9	64.4	60.6	-	63.9	-3.3
08:00 PM - 09:00 PM	65.3	64.3	58.4	-	63.8	-5.4
09:00 PM - 10:00 PM	65.8	64.5	59.9	-	64.0	-4.1
10:00 PM - 10:05 PM	65.3	65.3	-	n/a	63.8	-
10:05 PM - 10:10 PM	66.0	64.1	-	64.5	63.7	0.8
10:10 PM - 10:15 PM	65.3	64.3	-	61.4	63.9	-2.5
10:15 PM - 10:20 PM	65.5	64.3	-	62.3	63.8	-1.5
10:20 PM - 10:25 PM	65.5	64.2	-	62.6	63.8	-1.2
10:25 PM - 10:30 PM	65.4	64.1	-	62.5	63.6	-1.1
10:30 PM - 10:35 PM	65.3	64.3	-	61.4	63.8	-2.4
10:35 PM - 10:40 PM	65.4	64.2	-	62.2	63.7	-1.5
10:40 PM - 10:45 PM	65.4	64.0	-	62.8	63.5	-0.7
10:45 PM - 10:50 PM	65.2	64.0	-	62.0	63.6	-1.6
10:50 PM - 10:55 PM	65.3	64.0	-	62.4	63.5	-1.1
10:55 PM - 11:00 PM	65.1	64.1	-	61.2	63.6	-2.4
11:00 PM - 11:05 PM	65.2	64.1	-	61.7	63.7	-2.0
11:05 PM - 11:10 PM	65.3	64.2	-	61.8	63.8	-2.0
11:10 PM - 11:15 PM	65.4	64.3	-	61.9	63.8	-1.9
11:15 PM - 11:20 PM	65.5	64.0	-	63.2	63.6	-0.4
11:20 PM - 11:25 PM	65.4	64.2	-	62.2	63.7	-1.5
11:25 PM - 11:30 PM	65.4	64.2	-	62.2	63.7	-1.5
11:30 PM - 11:35 PM	65.4	64.2	-	62.2	63.7	-1.5
11:35 PM - 11:40 PM	65.4	64.3	-	61.9	63.8	-1.9
11:40 PM - 11:45 PM	65.5	64.3	-	62.3	63.8	-1.5
11:45 PM - 11:50 PM	65.5	64.2	-	62.6	63.7	-1.1
11:50 PM - 11:55 PM	65.5	64.2	-	62.6	63.8	-1.2
11:55 PM - 12:00 AM	65.5	64.3	-	62.3	63.8	-1.5
12:00 AM - 12:05 AM	65.5	64.3	-	62.3	63.9	-1.6
12:05 AM - 12:10 AM	65.4	64.4	-	61.5	64.0	-2.5
12:10 AM - 12:15 AM	65.4	64.2	-	62.2	63.8	-1.6
12:15 AM - 12:20 AM	65.4	64.2	-	62.2	63.8	-1.6
12:20 AM - 12:25 AM	65.5	64.2	-	62.6	63.7	-1.1
12:25 AM - 12:30 AM	65.4	64.2	-	62.2	63.7	-1.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) through its recommendations that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-2
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957020-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการขนถ่าย	เสียงขณะมีการขนถ่าย		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	65.4	64.1	-	62.5	63.7	-1.2
12:35 AM - 12:40 AM	65.4	64.2	-	62.2	63.7	-1.5
12:40 AM - 12:45 AM	65.4	64.2	-	62.2	63.6	-1.4
12:45 AM - 12:50 AM	65.4	64.2	-	62.2	63.8	-1.6
12:50 AM - 12:55 AM	65.4	64.3	-	61.9	63.8	-1.9
12:55 AM - 01:00 AM	65.5	64.2	-	62.6	63.8	-1.2
01:00 AM - 01:05 AM	65.5	64.2	-	62.6	63.7	-1.1
01:05 AM - 01:10 AM	65.6	64.3	-	62.7	63.8	-1.1
01:10 AM - 01:15 AM	65.4	64.3	-	61.9	63.8	-1.9
01:15 AM - 01:20 AM	65.4	64.3	-	61.9	63.8	-1.9
01:20 AM - 01:25 AM	65.4	64.2	-	62.2	63.7	-1.5
01:25 AM - 01:30 AM	65.5	64.3	-	62.3	63.8	-1.5
01:30 AM - 01:35 AM	65.5	64.4	-	62.0	63.9	-1.9
01:35 AM - 01:40 AM	65.7	64.4	-	62.8	63.9	-1.1
01:40 AM - 01:45 AM	65.7	64.2	-	63.4	63.7	-0.3
01:45 AM - 01:50 AM	65.6	64.2	-	63.0	63.7	-0.7
01:50 AM - 01:55 AM	65.6	64.1	-	63.3	63.7	-0.4
01:55 AM - 02:00 AM	65.5	64.3	-	62.3	63.8	-1.5
02:00 AM - 02:05 AM	65.6	64.2	-	63.0	63.7	-0.7
02:05 AM - 02:10 AM	65.5	64.2	-	62.6	63.8	-1.2
02:10 AM - 02:15 AM	65.6	64.3	-	62.7	63.9	-1.2
02:15 AM - 02:20 AM	65.6	64.3	-	62.7	64.0	-1.3
02:20 AM - 02:25 AM	65.6	64.3	-	62.7	63.9	-1.2
02:25 AM - 02:30 AM	65.6	64.4	-	62.4	63.9	-1.5
02:30 AM - 02:35 AM	65.5	64.2	-	62.6	63.8	-1.2
02:35 AM - 02:40 AM	65.4	64.4	-	61.5	63.9	-2.4
02:40 AM - 02:45 AM	65.5	64.4	-	62.0	64.0	-2.0
02:45 AM - 02:50 AM	65.6	64.3	-	62.7	63.8	-1.1
02:50 AM - 02:55 AM	65.4	64.2	-	62.2	63.8	-1.6
02:55 AM - 03:00 AM	65.5	64.2	-	62.6	63.8	-1.2
03:00 AM - 03:05 AM	65.4	64.1	-	62.5	63.7	-1.2
03:05 AM - 03:10 AM	65.4	64.3	-	61.9	63.9	-2.0
03:10 AM - 03:15 AM	65.5	64.3	-	62.3	63.9	-1.6
03:15 AM - 03:20 AM	65.7	64.5	-	62.5	64.0	-1.5
03:20 AM - 03:25 AM	65.6	64.3	-	62.7	63.8	-1.1
03:25 AM - 03:30 AM	65.5	64.3	-	62.3	63.9	-1.6
03:30 AM - 03:35 AM	65.4	64.2	-	62.2	63.8	-1.6
03:35 AM - 03:40 AM	65.5	64.2	-	62.6	63.8	-1.2
03:40 AM - 03:45 AM	64.2	64.2	-	62.6	63.8	-1.2
03:45 AM - 03:50 AM	65.6	64.3	-	62.7	63.8	-1.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-2
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957020-1

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการขนถ่าย	เสียงขณะมีการขนถ่าย		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	65.7	64.5	-	62.5	63.9	-1.4
03:55 AM - 04:00 AM	65.5	64.2	-	62.6	63.8	-1.2
04:00 AM - 04:05 AM	65.5	64.4	-	62.0	63.9	-1.9
04:05 AM - 04:10 AM	65.4	64.4	-	61.5	63.9	-2.4
04:10 AM - 04:15 AM	65.6	64.3	-	62.7	63.9	-1.2
04:15 AM - 04:20 AM	65.6	64.3	-	62.7	63.9	-1.2
04:20 AM - 04:25 AM	65.6	64.5	-	62.1	63.9	-1.8
04:25 AM - 04:30 AM	65.7	64.5	-	62.5	64.0	-1.5
04:30 AM - 04:35 AM	65.8	64.6	-	62.6	63.9	-1.3
04:35 AM - 04:40 AM	65.7	64.5	-	62.5	64.0	-1.5
04:40 AM - 04:45 AM	65.6	64.4	-	62.4	63.9	-1.5
04:45 AM - 04:50 AM	65.5	64.4	-	62.0	64.0	-2.0
04:50 AM - 04:55 AM	65.6	64.4	-	62.4	63.9	-1.5
04:55 AM - 05:00 AM	65.6	64.4	-	62.4	63.8	-1.4
05:00 AM - 05:05 AM	65.6	64.6	-	61.7	63.9	-2.2
05:05 AM - 05:10 AM	65.9	64.7	-	62.7	64.1	-1.4
05:10 AM - 05:15 AM	65.9	64.7	-	62.7	64.1	-1.4
05:15 AM - 05:20 AM	65.6	64.6	-	61.7	64.0	-2.3
05:20 AM - 05:25 AM	65.5	64.5	-	61.6	63.9	-2.3
05:25 AM - 05:30 AM	65.5	64.5	-	61.6	63.9	-2.3
05:30 AM - 05:35 AM	65.5	64.6	-	61.2	64.1	-2.9
05:35 AM - 05:40 AM	65.5	64.6	-	61.2	64.0	-2.8
05:40 AM - 05:45 AM	65.6	64.6	-	61.7	64.1	-2.4
05:45 AM - 05:50 AM	65.5	64.7	-	60.8	64.1	-3.3
05:50 AM - 05:55 AM	65.7	64.8	-	61.4	63.9	-2.5
05:55 AM - 06:00 AM	65.6	65.2	-	58.0	64.2	-6.2
06:00 AM - 07:00 AM	66.2	65.5	57.9	-	64.1	-6.2
07:00 AM - 08:00 AM	66.0	64.8	59.8	-	63.8	-4.0
08:00 AM - 09:00 AM	65.5	64.5	58.6	-	63.6	-5.0
09:00 AM - 10:00 AM	65.4	64.4	58.1	-	63.6	-5.1
10:00 AM - 11:00 AM	65.4	64.4	58.5	-	63.6	-5.1
11:00 AM - 12:00 PM	65.5	64.5	58.6	-	63.6	-5.0

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ที่ทำการตรวจวัด วันที่ 03-04 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรมการขนถ่าย (Sample No.2432591-2 วันที่ตรวจวัด 03-04 เมษายน 2567)
- ทุกค่า ไม่สามารถคำนวณระดับเสียงขณะมีการขนถ่ายเนื่องจากระดับเสียงจากแหล่งกำเนิดอยู่ต่ำกว่าระดับเสียงขณะไม่มีกิจกรรมการขนถ่าย

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAI) AND CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957021-1

Sample No. 2432594-3
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.1	64.2	57.8	-	63.4	-5.6
01:00 PM - 02:00 PM	65.7	65.1	56.8	-	63.2	-6.4
02:00 PM - 03:00 PM	66.0	64.2	61.3	-	63.3	-2.0
03:00 PM - 04:00 PM	65.8	64.1	60.9	-	63.4	-2.5
04:00 PM - 05:00 PM	66.0	64.9	59.5	-	63.9	-4.4
05:00 PM - 06:00 PM	65.7	64.6	59.2	-	63.9	-4.7
06:00 PM - 07:00 PM	65.3	64.6	57.0	-	63.7	-6.7
07:00 PM - 08:00 PM	65.3	64.3	58.4	-	63.5	-5.1
08:00 PM - 09:00 PM	64.9	64.1	57.2	-	63.5	-6.3
09:00 PM - 10:00 PM	65.0	64.1	57.7	-	63.7	-6.0
10:00 PM - 10:05 PM	64.9	64.0	-	60.5	63.7	-3.1
10:05 PM - 10:10 PM	65.0	64.1	-	60.7	63.7	-3.0
10:10 PM - 10:15 PM	64.9	64.2	-	59.6	63.7	-4.1
10:15 PM - 10:20 PM	64.9	64.1	-	60.2	63.7	-3.5
10:20 PM - 10:25 PM	65.1	64.1	-	61.2	63.6	-2.4
10:25 PM - 10:30 PM	65.1	64.0	-	61.6	63.6	-2.0
10:30 PM - 10:35 PM	65.1	64.1	-	61.2	63.7	-2.5
10:35 PM - 10:40 PM	65.0	64.0	-	61.1	63.5	-2.4
10:40 PM - 10:45 PM	65.0	63.9	-	61.5	63.5	-2.0
10:45 PM - 10:50 PM	65.0	64.0	-	61.1	63.5	-2.4
10:50 PM - 10:55 PM	65.0	64.0	-	61.1	63.6	-2.5
10:55 PM - 11:00 PM	64.9	64.0	-	60.6	63.5	-2.9
11:00 PM - 11:05 PM	64.9	64.0	-	60.6	63.6	-3.0
11:05 PM - 11:10 PM	65.0	64.0	-	61.1	63.6	-2.5
11:10 PM - 11:15 PM	64.9	64.1	-	60.2	63.5	-3.3
11:15 PM - 11:20 PM	64.9	63.9	-	61.0	63.5	-2.5
11:20 PM - 11:25 PM	65.0	64.0	-	61.1	63.5	-2.4
11:25 PM - 11:30 PM	64.9	63.9	-	61.0	63.4	-2.4
11:30 PM - 11:35 PM	64.9	63.9	-	61.0	63.5	-2.5
11:35 PM - 11:40 PM	64.9	64.0	-	60.6	63.5	-2.9
11:40 PM - 11:45 PM	64.9	64.0	-	60.6	63.4	-2.8
11:45 PM - 11:50 PM	65.0	64.0	-	61.1	63.5	-2.4
11:50 PM - 11:55 PM	65.0	64.1	-	60.7	63.6	-2.9
11:55 PM - 12:00 AM	65.0	64.0	-	61.1	63.6	-2.5
12:00 AM - 12:05 AM	65.0	64.1	-	60.7	63.6	-2.9
12:05 AM - 12:10 AM	65.0	64.0	-	61.1	63.5	-2.4
12:10 AM - 12:15 AM	65.0	64.0	-	61.1	63.5	-2.4
12:15 AM - 12:20 AM	64.8	63.9	-	60.5	63.6	-3.1
12:20 AM - 12:25 AM	64.9	64.1	-	60.2	63.6	-3.4
12:25 AM - 12:30 AM	64.8	64.2	-	58.9	63.6	-4.7

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957021-1

Sample No. 2432594-3
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	64.8	64.1	-	59.5	63.6	-4.1
12:35 AM - 12:40 AM	65.0	64.1	-	60.7	63.8	-3.1
12:40 AM - 12:45 AM	65.0	64.2	-	60.3	63.8	-3.5
12:45 AM - 12:50 AM	65.0	64.1	-	60.7	63.6	-2.9
12:50 AM - 12:55 AM	64.9	64.1	-	60.2	63.7	-3.5
12:55 AM - 01:00 AM	64.8	64.2	-	58.9	63.7	-4.8
01:00 AM - 01:05 AM	64.9	64.2	-	59.6	63.8	-4.2
01:05 AM - 01:10 AM	66.5	64.3	-	65.5	63.8	1.7
01:10 AM - 01:15 AM	65.6	64.3	-	62.7	63.8	-1.1
01:15 AM - 01:20 AM	65.6	64.1	-	63.3	63.7	-0.4
01:20 AM - 01:25 AM	65.8	64.2	-	63.7	63.8	-0.1
01:25 AM - 01:30 AM	65.7	64.0	-	63.8	63.6	0.2
01:30 AM - 01:35 AM	65.7	64.1	-	63.6	63.7	-0.1
01:35 AM - 01:40 AM	65.3	64.4	-	61.0	64.0	-3.0
01:40 AM - 01:45 AM	65.4	64.1	-	62.5	63.6	-1.1
01:45 AM - 01:50 AM	65.3	64.1	-	62.1	63.6	-1.5
01:50 AM - 01:55 AM	65.0	64.2	-	60.3	63.8	-3.5
01:55 AM - 02:00 AM	65.2	64.0	-	62.0	63.6	-1.6
02:00 AM - 02:05 AM	65.2	64.1	-	61.7	63.6	-1.9
02:05 AM - 02:10 AM	65.1	64.1	-	61.2	63.7	-2.5
02:10 AM - 02:15 AM	65.3	64.2	-	61.8	63.7	-1.9
02:15 AM - 02:20 AM	65.3	64.1	-	62.1	63.7	-1.6
02:20 AM - 02:25 AM	65.4	64.1	-	62.5	63.7	-1.2
02:25 AM - 02:30 AM	65.3	64.1	-	62.1	63.7	-1.6
02:30 AM - 02:35 AM	65.3	64.2	-	61.8	63.7	-1.9
02:35 AM - 02:40 AM	65.3	64.2	-	61.8	63.7	-1.9
02:40 AM - 02:45 AM	65.4	64.2	-	62.2	63.8	-1.6
02:45 AM - 02:50 AM	65.3	64.1	-	62.1	63.7	-1.6
02:50 AM - 02:55 AM	65.2	64.0	-	62.0	63.7	-1.7
02:55 AM - 03:00 AM	65.2	64.1	-	61.7	63.6	-1.9
03:00 AM - 03:05 AM	65.2	64.1	-	61.7	63.6	-1.9
03:05 AM - 03:10 AM	65.3	64.2	-	61.8	63.8	-2.0
03:10 AM - 03:15 AM	65.2	64.3	-	60.9	63.8	-2.9
03:15 AM - 03:20 AM	65.2	64.2	-	61.3	63.8	-2.5
03:20 AM - 03:25 AM	65.2	64.1	-	61.7	63.7	-2.0
03:25 AM - 03:30 AM	65.2	64.2	-	61.3	63.7	-2.4
03:30 AM - 03:35 AM	65.1	64.2	-	60.8	63.7	-2.9
03:35 AM - 03:40 AM	65.2	64.3	-	60.9	63.8	-2.9
03:40 AM - 03:45 AM	65.3	64.2	-	61.8	63.8	-2.0
03:45 AM - 03:50 AM	65.2	64.1	-	61.7	63.7	-2.0

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilwan Borirak
Wilwan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilwan Borirak
Wilwan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khw A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957021-1

Page 3 of 3

Sample No. 2432594-3
Parameter เสียงรบกวน
Location โรงงานด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	65.2	64.1	-	61.7	63.7	-2.0
03:55 AM - 04:00 AM	65.2	64.2	-	61.3	63.7	-2.4
04:00 AM - 04:05 AM	65.2	64.1	-	61.7	63.7	-2.0
04:05 AM - 04:10 AM	65.1	64.2	-	60.8	63.8	-3.0
04:10 AM - 04:15 AM	65.2	64.3	-	60.9	63.8	-2.9
04:15 AM - 04:20 AM	65.3	64.2	-	61.8	63.8	-2.0
04:20 AM - 04:25 AM	65.2	64.3	-	60.9	63.8	-2.9
04:25 AM - 04:30 AM	65.2	64.1	-	61.7	63.8	-2.1
04:30 AM - 04:35 AM	65.3	64.3	-	61.4	63.9	-2.5
04:35 AM - 04:40 AM	65.2	64.3	-	60.9	63.8	-2.9
04:40 AM - 04:45 AM	65.2	64.3	-	60.9	63.9	-3.0
04:45 AM - 04:50 AM	65.3	64.5	-	60.6	64.1	-3.5
04:50 AM - 04:55 AM	65.3	64.2	-	61.8	63.8	-2.0
04:55 AM - 05:00 AM	65.4	64.3	-	61.9	63.8	-1.9
05:00 AM - 05:05 AM	65.2	64.2	-	61.3	63.8	-2.5
05:05 AM - 05:10 AM	65.2	64.3	-	60.9	63.8	-2.9
05:10 AM - 05:15 AM	65.3	64.2	-	61.8	63.7	-1.9
05:15 AM - 05:20 AM	65.3	64.4	-	61.0	63.8	-2.8
05:20 AM - 05:25 AM	65.2	64.2	-	61.3	63.7	-2.4
05:25 AM - 05:30 AM	65.4	64.5	-	61.1	63.9	-2.8
05:30 AM - 05:35 AM	65.4	64.2	-	62.2	63.9	-1.7
05:35 AM - 05:40 AM	65.4	64.7	-	60.1	64.0	-3.9
05:40 AM - 05:45 AM	65.4	64.4	-	61.5	63.9	-2.4
05:45 AM - 05:50 AM	65.4	64.5	-	61.1	63.9	-2.8
05:50 AM - 05:55 AM	65.5	64.2	-	62.6	63.8	-1.2
05:55 AM - 06:00 AM	65.5	64.4	-	62.0	63.9	-1.9
06:00 AM - 07:00 AM	65.9	65.0	58.6	-	64.1	-5.5
07:00 AM - 08:00 AM	66.1	65.2	58.8	-	63.9	-5.1
08:00 AM - 09:00 AM	65.2	64.4	57.5	-	63.6	-6.1
09:00 AM - 10:00 AM	65.4	64.1	59.5	-	63.4	-3.9
10:00 AM - 11:00 AM	65.3	64.3	58.4	-	63.3	-4.9
11:00 AM - 12:00 PM	65.1	64.2	57.8	-	63.4	-5.6
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

หมายเหตุ :

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark :

- ระดับเสียงจากแหล่งกำเนิด ที่การตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-3 วันที่ตรวจวัด 04-05 เมษายน 2567)
- ก/ด) ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the test method(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Ltd. warrants that this report is not reproduced except in full.

Approved by

Wilwan Borirak

Wilwan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khoi A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957022-1

Page 1 of 3

Sample No. 2432594-4
Parameter เสียงรบกวน
Location โรงงานด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.1	64.1	58.2	-	63.3	-5.1
01:00 PM - 02:00 PM	65.2	64.3	57.9	-	63.4	-5.5
02:00 PM - 03:00 PM	64.9	63.9	58.0	-	63.2	-5.2
03:00 PM - 04:00 PM	65.2	64.0	59.0	-	63.3	-4.3
04:00 PM - 05:00 PM	65.4	64.5	58.1	-	63.6	-5.5
05:00 PM - 06:00 PM	66.1	64.5	61.0	-	63.8	-2.8
06:00 PM - 07:00 PM	66.3	64.7	61.2	-	63.9	-2.7
07:00 PM - 08:00 PM	66.0	64.6	60.4	-	63.9	-3.5
08:00 PM - 09:00 PM	65.3	64.1	59.1	-	63.7	-4.6
09:00 PM - 10:00 PM	64.8	64.1	56.5	-	63.7	-7.2
10:00 PM - 10:05 PM	64.9	64.1	-	60.2	63.7	-3.5
10:05 PM - 10:10 PM	64.8	64.0	-	60.1	63.7	-3.6
10:10 PM - 10:15 PM	64.9	64.2	-	59.6	63.8	-4.2
10:15 PM - 10:20 PM	64.8	64.1	-	59.5	63.8	-4.3
10:20 PM - 10:25 PM	64.8	64.0	-	60.1	63.6	-3.5
10:25 PM - 10:30 PM	64.8	64.0	-	60.1	63.7	-3.6
10:30 PM - 10:35 PM	64.8	64.2	-	58.9	63.8	-4.9
10:35 PM - 10:40 PM	64.8	64.0	-	60.1	63.6	-3.5
10:40 PM - 10:45 PM	64.9	64.1	-	60.2	63.7	-3.5
10:45 PM - 10:50 PM	65.0	64.0	-	61.1	63.6	-2.5
10:50 PM - 10:55 PM	64.7	64.0	-	59.4	63.6	-4.2
10:55 PM - 11:00 PM	64.8	64.0	-	60.1	63.5	-3.4
11:00 PM - 11:05 PM	64.8	63.9	-	60.5	63.5	-3.0
11:05 PM - 11:10 PM	64.7	63.8	-	60.4	63.5	-3.1
11:10 PM - 11:15 PM	64.8	63.9	-	60.5	63.5	-3.0
11:15 PM - 11:20 PM	64.8	64.0	-	60.1	63.6	-3.5
11:20 PM - 11:25 PM	64.9	63.9	-	61.0	63.6	-2.6
11:25 PM - 11:30 PM	64.9	64.0	-	60.6	63.6	-3.0
11:30 PM - 11:35 PM	64.9	64.0	-	60.6	63.5	-2.9
11:35 PM - 11:40 PM	64.7	64.0	-	59.4	63.6	-4.2
11:40 PM - 11:45 PM	64.8	63.9	-	60.5	63.5	-3.0
11:45 PM - 11:50 PM	64.8	63.8	-	60.9	63.5	-2.6
11:50 PM - 11:55 PM	64.8	64.0	-	60.1	63.6	-3.5
11:55 PM - 12:00 AM	64.8	63.8	-	60.9	63.5	-2.6
12:00 AM - 12:05 AM	64.7	64.0	-	59.4	63.6	-4.2
12:05 AM - 12:10 AM	64.8	63.9	-	60.5	63.6	-3.1
12:10 AM - 12:15 AM	64.9	63.9	-	61.0	63.5	-2.5
12:15 AM - 12:20 AM	64.8	64.0	-	60.1	63.6	-3.5
12:20 AM - 12:25 AM	64.9	63.8	-	61.4	63.4	-2.0
12:25 AM - 12:30 AM	64.9	64.0	-	60.6	63.6	-3.0

The above results are valid only for the test method(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) Ltd. warrants that this report is not reproduced except in full.

Approved by

Wilwan Borirak

Wilwan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khoi A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957022-1

Sample No. 2432594-4
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	64.9	64.0	-	60.6	63.6	-3.0
12:35 AM - 12:40 AM	64.9	64.0	-	60.6	63.6	-3.0
12:40 AM - 12:45 AM	64.8	64.2	-	58.9	63.7	-4.8
12:45 AM - 12:50 AM	64.7	64.0	-	59.4	63.6	-4.2
12:50 AM - 12:55 AM	64.9	63.8	-	61.4	63.5	-2.1
12:55 AM - 01:00 AM	64.8	64.0	-	60.1	63.7	-3.6
01:00 AM - 01:05 AM	64.8	64.0	-	60.1	63.6	-3.5
01:05 AM - 01:10 AM	64.8	63.9	-	60.5	63.6	-3.1
01:10 AM - 01:15 AM	64.8	64.0	-	60.1	63.6	-3.5
01:15 AM - 01:20 AM	64.9	64.0	-	60.6	63.6	-3.0
01:20 AM - 01:25 AM	64.9	64.1	-	60.2	63.7	-3.5
01:25 AM - 01:30 AM	65.8	64.1	-	63.9	63.7	0.2
01:30 AM - 01:35 AM	65.0	65.1	-	η/λ	63.7	-
01:35 AM - 01:40 AM	64.9	64.2	-	59.6	63.7	-4.1
01:40 AM - 01:45 AM	64.8	64.0	-	60.1	63.7	-3.6
01:45 AM - 01:50 AM	64.9	63.9	-	61.0	63.6	-2.6
01:50 AM - 01:55 AM	64.7	64.1	-	58.8	63.7	-4.9
01:55 AM - 02:00 AM	64.9	64.0	-	60.6	63.5	-2.9
02:00 AM - 02:05 AM	64.9	64.0	-	60.6	63.5	-2.9
02:05 AM - 02:10 AM	64.9	64.0	-	60.6	63.6	-3.0
02:10 AM - 02:15 AM	65.1	63.9	-	61.9	63.5	-1.6
02:15 AM - 02:20 AM	65.1	64.0	-	61.6	63.6	-2.0
02:20 AM - 02:25 AM	65.0	64.1	-	60.7	63.7	-3.0
02:25 AM - 02:30 AM	65.1	64.1	-	61.2	63.7	-2.5
02:30 AM - 02:35 AM	65.2	64.0	-	62.0	63.6	-1.6
02:35 AM - 02:40 AM	65.1	64.1	-	61.2	63.6	-2.4
02:40 AM - 02:45 AM	65.4	64.1	-	62.5	63.6	-1.1
02:45 AM - 02:50 AM	65.4	64.2	-	62.2	63.8	-1.6
02:50 AM - 02:55 AM	65.4	64.1	-	62.5	63.7	-1.2
02:55 AM - 03:00 AM	65.4	64.1	-	62.5	63.7	-1.2
03:00 AM - 03:05 AM	65.5	64.1	-	62.9	63.7	-0.8
03:05 AM - 03:10 AM	65.5	64.2	-	62.6	63.8	-1.2
03:10 AM - 03:15 AM	65.4	64.1	-	62.5	63.7	-1.2
03:15 AM - 03:20 AM	65.4	64.0	-	62.8	63.7	-0.9
03:20 AM - 03:25 AM	65.4	64.1	-	62.5	63.7	-1.2
03:25 AM - 03:30 AM	65.3	64.1	-	62.1	63.8	-1.7
03:30 AM - 03:35 AM	65.4	64.2	-	62.2	63.7	-1.5
03:35 AM - 03:40 AM	65.3	64.2	-	61.8	63.8	-2.0
03:40 AM - 03:45 AM	65.3	64.2	-	61.8	63.7	-1.9
03:45 AM - 03:50 AM	65.3	64.2	-	61.8	63.7	-1.9

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957022-1

Sample No. 2432594-4
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	65.3	64.2	-	61.8	63.8	-2.0
03:55 AM - 04:00 AM	65.0	64.1	-	60.7	63.7	-3.0
04:00 AM - 04:05 AM	64.8	64.0	-	60.1	63.7	-3.6
04:05 AM - 04:10 AM	64.8	64.1	-	59.5	63.7	-4.2
04:10 AM - 04:15 AM	64.8	64.0	-	60.1	63.7	-3.6
04:15 AM - 04:20 AM	64.9	64.0	-	60.6	63.6	-3.0
04:20 AM - 04:25 AM	64.9	64.0	-	60.6	63.6	-3.0
04:25 AM - 04:30 AM	64.9	64.2	-	59.6	63.8	-4.2
04:30 AM - 04:35 AM	64.9	64.1	-	60.2	63.8	-3.6
04:35 AM - 04:40 AM	64.8	64.1	-	59.5	63.7	-4.2
04:40 AM - 04:45 AM	64.8	64.1	-	59.5	63.7	-4.2
04:45 AM - 04:50 AM	64.9	64.1	-	60.2	63.7	-3.5
04:50 AM - 04:55 AM	65.1	64.1	-	61.2	63.7	-2.5
04:55 AM - 05:00 AM	65.2	64.7	-	58.6	64.2	-5.6
05:00 AM - 05:05 AM	65.3	64.8	-	58.7	64.4	-5.7
05:05 AM - 05:10 AM	65.1	64.9	-	54.6	64.5	-9.9
05:10 AM - 05:15 AM	65.2	64.9	-	56.4	64.5	-8.1
05:15 AM - 05:20 AM	65.2	64.9	-	56.4	64.4	-8.0
05:20 AM - 05:25 AM	65.3	64.9	-	57.7	64.2	-6.5
05:25 AM - 05:30 AM	65.3	64.8	-	58.7	64.1	-5.4
05:30 AM - 05:35 AM	66.7	64.8	-	65.2	64.3	0.9
05:35 AM - 05:40 AM	65.7	64.4	-	62.8	63.9	-1.1
05:40 AM - 05:45 AM	65.9	64.3	-	63.8	63.9	-0.1
05:45 AM - 05:50 AM	65.7	64.5	-	62.5	64.0	-1.5
05:50 AM - 05:55 AM	65.8	64.4	-	63.2	63.9	-0.7
05:55 AM - 06:00 AM	66.0	64.2	-	64.3	63.8	0.5
06:00 AM - 07:00 AM	65.8	64.6	59.6	-	63.9	-4.3
07:00 AM - 08:00 AM	65.8	64.9	58.5	-	63.8	-5.3
08:00 AM - 09:00 AM	65.8	64.5	59.9	-	63.6	-3.7
09:00 AM - 10:00 AM	65.4	64.1	59.5	-	63.5	-4.0
10:00 AM - 11:00 AM	65.1	63.9	58.9	-	63.4	-4.5
11:00 AM - 12:00 PM	65.3	64.1	59.1	-	63.4	-4.3
						≤ 10

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดของระดับเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด หักการตรวจวัด วันที่ 05-06 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432591-4 วันที่ตรวจวัด 05-06 เมษายน 2567)
- ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-5
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957023-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการกลั่น	เสียงขณะมีการกลั่น		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.4	63.8	60.3	-	63.3	-3.0
01:00 PM - 02:00 PM	65.1	63.9	58.9	-	63.3	-4.4
02:00 PM - 03:00 PM	65.4	64.1	59.5	-	63.4	-3.9
03:00 PM - 04:00 PM	66.1	64.2	61.6	-	63.5	-1.9
04:00 PM - 05:00 PM	65.9	64.3	60.8	-	63.5	-2.7
05:00 PM - 06:00 PM	65.7	64.1	60.6	-	63.6	-3.0
06:00 PM - 07:00 PM	65.2	64.2	58.3	-	63.7	-5.4
07:00 PM - 08:00 PM	65.4	64.5	58.1	-	63.7	-5.5
08:00 PM - 09:00 PM	65.5	64.2	59.6	-	63.8	-4.2
09:00 PM - 10:00 PM	65.7	64.2	60.4	-	63.8	-3.4
10:00 PM - 10:05 PM	65.4	64.2	-	62.2	63.8	-1.6
10:05 PM - 10:10 PM	65.4	64.1	-	62.5	63.7	-1.2
10:10 PM - 10:15 PM	65.5	64.2	-	62.6	63.8	-1.2
10:15 PM - 10:20 PM	65.5	64.2	-	62.6	63.8	-1.2
10:20 PM - 10:25 PM	65.8	64.2	-	63.7	63.8	-0.1
10:25 PM - 10:30 PM	65.7	64.2	-	63.4	63.8	-0.4
10:30 PM - 10:35 PM	65.6	64.2	-	63.0	63.8	-0.8
10:35 PM - 10:40 PM	65.7	64.2	-	63.4	63.8	-0.4
10:40 PM - 10:45 PM	65.7	64.1	-	63.6	63.7	-0.1
10:45 PM - 10:50 PM	65.3	64.2	-	61.8	63.8	-2.0
10:50 PM - 10:55 PM	65.0	64.1	-	60.7	63.7	-3.0
10:55 PM - 11:00 PM	65.1	64.2	-	60.8	63.8	-3.0
11:00 PM - 11:05 PM	65.1	64.2	-	60.8	63.8	-3.0
11:05 PM - 11:10 PM	65.1	64.1	-	61.2	63.6	-2.4
11:10 PM - 11:15 PM	65.1	64.1	-	61.2	63.8	-2.6
11:15 PM - 11:20 PM	65.1	64.2	-	60.8	63.8	-3.0
11:20 PM - 11:25 PM	65.1	64.3	-	60.4	63.8	-3.4
11:25 PM - 11:30 PM	65.0	64.1	-	60.7	63.7	-3.0
11:30 PM - 11:35 PM	64.8	64.0	-	60.1	63.7	-3.6
11:35 PM - 11:40 PM	64.9	64.0	-	60.6	63.6	-3.0
11:40 PM - 11:45 PM	64.9	64.0	-	60.6	63.6	-3.0
11:45 PM - 11:50 PM	64.9	63.9	-	61.0	63.5	-2.5
11:50 PM - 11:55 PM	65.0	64.1	-	60.7	63.6	-2.9
11:55 PM - 12:00 AM	64.9	64.0	-	60.6	63.6	-3.0
12:00 AM - 12:05 AM	65.0	64.0	-	61.1	63.5	-2.4
12:05 AM - 12:10 AM	64.9	64.0	-	60.6	63.6	-3.0
12:10 AM - 12:15 AM	64.9	64.1	-	60.2	63.6	-3.4
12:15 AM - 12:20 AM	64.9	64.0	-	60.6	63.6	-3.0
12:20 AM - 12:25 AM	64.9	63.9	-	61.0	63.5	-2.5
12:25 AM - 12:30 AM	64.8	64.0	-	60.1	63.6	-3.5

The above results are valid only for the undisturbed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-5
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957023-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการกลั่น	เสียงขณะมีการกลั่น		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	64.9	63.9	-	61.0	63.6	-2.6
12:35 AM - 12:40 AM	64.9	64.0	-	60.6	63.6	-3.0
12:40 AM - 12:45 AM	64.7	63.8	-	60.4	63.5	-3.1
12:45 AM - 12:50 AM	64.8	63.9	-	60.5	63.5	-3.0
12:50 AM - 12:55 AM	65.1	64.0	-	61.6	63.6	-2.0
12:55 AM - 01:00 AM	65.9	64.0	-	64.4	63.6	0.8
01:00 AM - 01:05 AM	65.9	64.2	-	64.0	63.7	0.3
01:05 AM - 01:10 AM	66.0	64.2	-	64.3	63.8	0.5
01:10 AM - 01:15 AM	66.1	64.3	-	64.4	63.9	0.5
01:15 AM - 01:20 AM	66.0	64.2	-	64.3	63.8	0.5
01:20 AM - 01:25 AM	66.0	64.1	-	64.5	63.7	0.8
01:25 AM - 01:30 AM	65.9	64.2	-	64.0	63.8	0.2
01:30 AM - 01:35 AM	66.0	64.2	-	64.3	63.8	0.5
01:35 AM - 01:40 AM	65.9	64.1	-	64.2	63.7	0.5
01:40 AM - 01:45 AM	65.9	64.1	-	64.2	63.7	0.5
01:45 AM - 01:50 AM	65.9	64.1	-	64.2	63.7	0.5
01:50 AM - 01:55 AM	65.9	64.0	-	64.4	63.7	0.7
01:55 AM - 02:00 AM	65.8	64.2	-	63.7	63.8	-0.1
02:00 AM - 02:05 AM	65.9	64.2	-	64.0	63.8	0.2
02:05 AM - 02:10 AM	65.9	64.2	-	64.0	63.8	0.2
02:10 AM - 02:15 AM	65.9	64.2	-	64.0	63.8	0.2
02:15 AM - 02:20 AM	66.0	64.2	-	64.3	63.8	0.5
02:20 AM - 02:25 AM	65.9	64.2	-	64.0	63.8	0.2
02:25 AM - 02:30 AM	65.9	64.3	-	63.8	63.9	-0.1
02:30 AM - 02:35 AM	65.9	64.1	-	64.2	63.8	0.4
02:35 AM - 02:40 AM	65.9	64.1	-	64.2	63.8	0.4
02:40 AM - 02:45 AM	65.9	64.1	-	64.2	63.7	0.5
02:45 AM - 02:50 AM	65.9	64.0	-	64.4	63.7	0.7
02:50 AM - 02:55 AM	65.9	64.2	-	64.0	63.8	0.2
02:55 AM - 03:00 AM	65.9	64.1	-	64.2	63.8	0.4
03:00 AM - 03:05 AM	66.0	64.1	-	64.5	63.8	0.7
03:05 AM - 03:10 AM	65.9	64.3	-	63.8	64.0	-0.2
03:10 AM - 03:15 AM	66.0	64.4	-	63.9	64.0	-0.1
03:15 AM - 03:20 AM	65.9	64.2	-	64.0	63.9	0.1
03:20 AM - 03:25 AM	65.9	64.2	-	64.0	63.8	0.2
03:25 AM - 03:30 AM	65.8	64.2	-	63.7	63.9	-0.2
03:30 AM - 03:35 AM	65.8	64.2	-	63.7	63.8	-0.1
03:35 AM - 03:40 AM	65.9	64.1	-	64.2	63.7	0.5
03:40 AM - 03:45 AM	65.9	64.1	-	64.2	63.7	0.5
03:45 AM - 03:50 AM	65.9	64.2	-	64.0	63.8	0.2

The above results are valid only for the undisturbed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957023-1

Sample No. 2432594-5
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	65.9	64.3	-	63.8	63.9	-0.1
03:55 AM - 04:00 AM	66.0	64.2	-	64.3	63.8	0.5
04:00 AM - 04:05 AM	65.9	64.2	-	64.0	63.9	0.1
04:05 AM - 04:10 AM	65.9	64.2	-	64.0	63.9	0.1
04:10 AM - 04:15 AM	66.0	64.3	-	64.1	63.9	0.2
04:15 AM - 04:20 AM	66.0	64.3	-	64.1	63.9	0.2
04:20 AM - 04:25 AM	66.0	64.3	-	64.1	63.9	0.2
04:25 AM - 04:30 AM	65.9	64.2	-	64.0	63.9	0.1
04:30 AM - 04:35 AM	66.2	64.7	-	63.9	64.2	-0.3
04:35 AM - 04:40 AM	66.0	64.8	-	63.8	64.1	-1.3
04:40 AM - 04:45 AM	66.2	65.0	-	63.0	64.3	-1.3
04:45 AM - 04:50 AM	66.1	65.0	-	62.6	64.7	-2.1
04:50 AM - 04:55 AM	66.1	64.9	-	62.9	64.4	-1.5
04:55 AM - 05:00 AM	66.1	64.8	-	63.2	64.2	-1.0
05:00 AM - 05:05 AM	66.0	64.8	-	62.8	64.2	-1.4
05:05 AM - 05:10 AM	66.0	64.4	-	63.9	64.0	-0.1
05:10 AM - 05:15 AM	65.8	64.4	-	63.2	64.0	-0.8
05:15 AM - 05:20 AM	65.6	64.3	-	62.7	63.9	-1.2
05:20 AM - 05:25 AM	65.7	64.4	-	62.8	64.0	-1.2
05:25 AM - 05:30 AM	65.7	64.4	-	62.8	64.1	-1.3
05:30 AM - 05:35 AM	65.9	64.6	-	63.0	64.1	-1.1
05:35 AM - 05:40 AM	65.6	64.6	-	61.7	64.1	-2.4
05:40 AM - 05:45 AM	65.6	64.3	-	62.7	63.9	-1.2
05:45 AM - 05:50 AM	65.7	64.6	-	62.2	64.0	-1.8
05:50 AM - 05:55 AM	65.7	64.3	-	63.1	63.9	-0.8
05:55 AM - 06:00 AM	65.8	64.7	-	62.3	64.1	-1.8
06:00 AM - 07:00 AM	65.9	64.6	60.0	-	63.9	-3.9
07:00 AM - 08:00 AM	66.1	64.7	60.5	-	63.7	-3.2
08:00 AM - 09:00 AM	65.8	64.4	60.2	-	63.6	-3.4
09:00 AM - 10:00 AM	65.7	64.1	60.6	-	63.5	-2.9
10:00 AM - 11:00 AM	65.7	64.1	60.6	-	63.5	-2.9
11:00 AM - 12:00 PM	65.7	64.4	59.8	-	63.8	-4.0

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและแนวทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิกัดตรวจวัด วันที่ 06-07 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-5 วันที่ตรวจวัด 06-07 เมษายน 2567)
- ก/ล: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand), strongly recommends that this report is not reproduced except in full.

Approved by

WibB.
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957024-1

Sample No. 2432594-6
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.6	64.0	60.5	-	63.4	-2.9
01:00 PM - 02:00 PM	65.5	63.9	60.4	-	63.3	-2.9
02:00 PM - 03:00 PM	65.1	63.6	59.8	-	63.1	-3.3
03:00 PM - 04:00 PM	65.0	63.7	59.1	-	63.1	-4.0
04:00 PM - 05:00 PM	64.9	63.7	58.7	-	63.1	-4.4
05:00 PM - 06:00 PM	65.5	64.1	59.9	-	63.3	-3.4
06:00 PM - 07:00 PM	65.5	64.1	59.9	-	63.4	-3.5
07:00 PM - 08:00 PM	66.1	64.3	61.4	-	63.7	-2.3
08:00 PM - 09:00 PM	66.1	64.3	61.4	-	63.6	-2.2
09:00 PM - 10:00 PM	65.7	64.0	60.8	-	63.5	-2.7
10:00 PM - 10:05 PM	65.5	64.0	-	63.2	63.7	-0.5
10:05 PM - 10:10 PM	65.4	64.0	-	62.8	63.6	-0.8
10:10 PM - 10:15 PM	65.4	64.1	-	62.5	63.6	-1.1
10:15 PM - 10:20 PM	65.4	63.8	-	62.3	63.5	-0.2
10:20 PM - 10:25 PM	65.6	63.9	-	63.7	63.6	0.1
10:25 PM - 10:30 PM	65.7	64.0	-	63.8	63.5	0.3
10:30 PM - 10:35 PM	65.7	64.0	-	63.8	63.6	0.2
10:35 PM - 10:40 PM	65.7	63.9	-	64.0	63.6	0.4
10:40 PM - 10:45 PM	65.4	64.1	-	62.5	63.7	-1.2
10:45 PM - 10:50 PM	65.2	64.1	-	61.7	63.8	-2.1
10:50 PM - 10:55 PM	65.3	64.0	-	62.4	63.7	-1.3
10:55 PM - 11:00 PM	65.4	63.9	-	63.1	63.6	-0.5
11:00 PM - 11:05 PM	66.0	63.9	-	64.8	63.6	1.2
11:05 PM - 11:10 PM	66.2	64.0	-	65.2	63.7	1.5
11:10 PM - 11:15 PM	65.6	64.1	-	63.3	63.6	-0.3
11:15 PM - 11:20 PM	65.8	64.0	-	64.1	63.6	0.5
11:20 PM - 11:25 PM	65.7	64.1	-	63.6	63.7	-0.1
11:25 PM - 11:30 PM	65.6	64.2	-	63.0	63.8	-0.8
11:30 PM - 11:35 PM	65.4	64.0	-	62.8	63.7	-0.9
11:35 PM - 11:40 PM	65.0	64.0	-	61.1	63.7	-2.6
11:40 PM - 11:45 PM	65.0	64.1	-	60.7	63.7	-3.0
11:45 PM - 11:50 PM	65.1	63.9	-	61.9	63.5	-1.6
11:50 PM - 11:55 PM	64.9	63.9	-	61.0	63.5	-2.5
11:55 PM - 12:00 AM	64.9	64.0	-	60.6	63.6	-3.0
12:00 AM - 12:05 AM	65.2	63.8	-	62.6	63.5	-0.9
12:05 AM - 12:10 AM	65.0	63.8	-	61.8	63.4	-1.6
12:10 AM - 12:15 AM	65.0	64.2	-	60.3	63.7	-3.4
12:15 AM - 12:20 AM	65.1	63.9	-	61.9	63.6	-1.7
12:20 AM - 12:25 AM	65.0	63.9	-	61.5	63.6	-2.1
12:25 AM - 12:30 AM	65.0	64.0	-	61.1	63.6	-2.5

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory, ALS Laboratory Group (Thailand), strongly recommends that this report is not reproduced except in full.

Approved by

WibB.
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-6
Parameter เสียงรบกวน
Location รั้วโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957024-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	65.0	64.0	-	61.1	63.7	-2.6
12:35 AM - 12:40 AM	65.0	63.9	-	61.5	63.5	-2.0
12:40 AM - 12:45 AM	65.0	64.0	-	61.1	63.6	-2.5
12:45 AM - 12:50 AM	64.9	64.0	-	60.6	63.6	-3.0
12:50 AM - 12:55 AM	64.9	64.0	-	60.6	63.6	-3.0
12:55 AM - 01:00 AM	64.9	63.9	-	61.0	63.5	-2.5
01:00 AM - 01:05 AM	64.9	63.9	-	61.0	63.5	-2.5
01:05 AM - 01:10 AM	65.0	63.9	-	61.5	63.5	-2.0
01:10 AM - 01:15 AM	64.8	64.0	-	60.1	63.6	-3.5
01:15 AM - 01:20 AM	64.9	64.1	-	60.2	63.6	-3.4
01:20 AM - 01:25 AM	64.8	63.8	-	60.9	63.5	-2.6
01:25 AM - 01:30 AM	64.9	64.1	-	60.2	63.6	-3.4
01:30 AM - 01:35 AM	65.0	63.9	-	61.5	63.5	-2.0
01:35 AM - 01:40 AM	65.2	64.0	-	62.0	63.5	-1.5
01:40 AM - 01:45 AM	65.6	64.0	-	63.5	63.7	-0.2
01:45 AM - 01:50 AM	65.7	63.9	-	64.0	63.5	0.5
01:50 AM - 01:55 AM	65.7	63.8	-	64.2	63.4	0.8
01:55 AM - 02:00 AM	65.9	63.9	-	64.6	63.6	1.0
02:00 AM - 02:05 AM	65.7	63.9	-	64.0	63.6	0.4
02:05 AM - 02:10 AM	65.8	63.9	-	64.3	63.6	0.7
02:10 AM - 02:15 AM	66.2	63.9	-	65.3	63.5	1.8
02:15 AM - 02:20 AM	65.8	64.0	-	64.1	63.6	0.5
02:20 AM - 02:25 AM	65.8	64.5	-	62.9	63.8	-0.9
02:25 AM - 02:30 AM	65.9	64.2	-	64.0	63.8	0.2
02:30 AM - 02:35 AM	65.8	64.1	-	63.9	63.7	0.2
02:35 AM - 02:40 AM	65.8	64.3	-	63.5	63.9	-0.4
02:40 AM - 02:45 AM	65.7	64.2	-	63.4	63.8	-0.4
02:45 AM - 02:50 AM	65.6	64.1	-	63.3	63.6	-0.3
02:50 AM - 02:55 AM	65.7	64.0	-	63.8	63.7	0.1
02:55 AM - 03:00 AM	65.6	64.0	-	63.5	63.6	-0.1
03:00 AM - 03:05 AM	65.7	63.9	-	64.0	63.5	0.5
03:05 AM - 03:10 AM	65.7	63.9	-	64.0	63.6	0.4
03:10 AM - 03:15 AM	65.7	64.0	-	63.8	63.6	0.2
03:15 AM - 03:20 AM	65.9	64.0	-	64.4	63.6	0.8
03:20 AM - 03:25 AM	65.7	63.9	-	64.0	63.6	0.4
03:25 AM - 03:30 AM	65.8	64.0	-	64.1	63.7	0.4
03:30 AM - 03:35 AM	65.8	64.0	-	64.1	63.6	0.5
03:35 AM - 03:40 AM	65.8	64.4	-	63.2	63.7	-0.5
03:40 AM - 03:45 AM	64.1	63.9	-	63.9	63.7	0.2
03:45 AM - 03:50 AM	65.7	64.1	-	63.6	63.7	-0.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-6
Parameter เสียงรบกวน
Location รั้วโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957024-1

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	65.8	64.1	-	63.9	63.6	0.3
03:55 AM - 04:00 AM	65.7	64.0	-	63.8	63.6	0.2
04:00 AM - 04:05 AM	65.6	64.1	-	63.3	63.7	-0.4
04:05 AM - 04:10 AM	65.7	63.9	-	64.0	63.5	0.5
04:10 AM - 04:15 AM	65.6	63.8	-	63.9	63.5	0.4
04:15 AM - 04:20 AM	65.6	63.8	-	63.9	63.5	0.4
04:20 AM - 04:25 AM	65.7	63.8	-	64.2	63.4	0.8
04:25 AM - 04:30 AM	65.8	63.9	-	64.3	63.5	0.8
04:30 AM - 04:35 AM	65.8	64.0	-	64.1	63.6	0.5
04:35 AM - 04:40 AM	65.7	64.0	-	63.8	63.6	0.2
04:40 AM - 04:45 AM	65.8	64.1	-	63.9	63.6	0.3
04:45 AM - 04:50 AM	65.8	63.9	-	64.3	63.5	0.8
04:50 AM - 04:55 AM	65.7	64.1	-	63.6	63.7	-0.1
04:55 AM - 05:00 AM	65.6	64.2	-	63.0	63.8	-0.8
05:00 AM - 05:05 AM	65.5	64.1	-	62.9	63.7	-0.8
05:05 AM - 05:10 AM	65.5	64.1	-	62.9	63.7	-0.8
05:10 AM - 05:15 AM	65.3	64.1	-	62.1	63.8	-1.7
05:15 AM - 05:20 AM	65.3	64.0	-	62.4	63.6	-1.2
05:20 AM - 05:25 AM	65.3	64.0	-	62.4	63.7	-1.3
05:25 AM - 05:30 AM	65.5	64.0	-	63.2	63.7	-0.5
05:30 AM - 05:35 AM	65.3	64.0	-	62.4	63.7	-1.3
05:35 AM - 05:40 AM	65.4	64.1	-	62.5	63.7	-1.2
05:40 AM - 05:45 AM	65.5	64.1	-	62.9	63.7	-0.8
05:45 AM - 05:50 AM	65.4	64.2	-	62.7	63.8	-1.6
05:50 AM - 05:55 AM	65.3	64.2	-	61.8	63.7	-1.9
05:55 AM - 06:00 AM	65.1	64.2	-	60.8	63.9	-3.1
06:00 AM - 07:00 AM	65.0	64.2	57.3	-	63.7	-6.4
07:00 AM - 08:00 AM	65.4	64.3	58.9	-	63.6	-4.7
08:00 AM - 09:00 AM	65.9	65.0	58.6	-	63.6	-5.0
09:00 AM - 10:00 AM	65.5	65.1	54.9	-	63.4	-8.5
10:00 AM - 11:00 AM	65.9	64.5	60.3	-	63.2	-2.9
11:00 AM - 12:00 PM	65.1	64.2	57.8	-	63.1	-5.3

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ที่ทำการตรวจวัด วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432591-6 วันที่ตรวจวัด 07-08 เมษายน 2567)
- ค่า: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432594-7
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date : Apr 08 - 09, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957025-1

Page 1 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	65.1	64.2	57.8	-	63.0	-5.2
01:00 PM - 02:00 PM	65.2	64.5	56.9	-	62.9	-6.0
02:00 PM - 03:00 PM	65.1	64.1	58.2	-	63.0	-4.8
03:00 PM - 04:00 PM	65.1	63.8	59.2	-	63.1	-3.9
04:00 PM - 05:00 PM	65.6	64.2	60.0	-	63.4	-3.4
05:00 PM - 06:00 PM	65.2	64.4	57.5	-	63.5	-6.0
06:00 PM - 07:00 PM	65.1	64.1	58.2	-	63.5	-5.3
07:00 PM - 08:00 PM	65.4	64.3	58.9	-	63.6	-4.7
08:00 PM - 09:00 PM	65.5	64.0	60.2	-	63.6	-3.4
09:00 PM - 10:00 PM	65.4	64.0	59.8	-	63.6	-3.8
10:00 PM - 10:05 PM	65.5	64.0	-	63.2	63.5	-0.3
10:05 PM - 10:10 PM	65.4	64.0	-	62.8	63.6	-0.8
10:10 PM - 10:15 PM	65.5	63.9	-	63.4	63.5	-0.1
10:15 PM - 10:20 PM	65.6	64.0	-	63.5	63.5	0.0
10:20 PM - 10:25 PM	65.4	64.3	-	61.9	63.7	-1.8
10:25 PM - 10:30 PM	65.4	63.9	-	63.1	63.6	-0.5
10:30 PM - 10:35 PM	65.4	63.9	-	63.1	63.6	-0.5
10:35 PM - 10:40 PM	65.8	64.2	-	63.7	63.6	0.1
10:40 PM - 10:45 PM	66.0	64.0	-	64.7	63.5	1.2
10:45 PM - 10:50 PM	65.4	64.0	-	62.8	63.5	-0.7
10:50 PM - 10:55 PM	65.5	63.8	-	63.6	63.4	0.2
10:55 PM - 11:00 PM	65.6	63.8	-	63.9	63.5	0.4
11:00 PM - 11:05 PM	65.6	64.0	-	63.5	63.6	-0.1
11:05 PM - 11:10 PM	65.2	64.0	-	62.0	63.7	-1.7
11:10 PM - 11:15 PM	65.1	63.9	-	61.9	63.6	-1.7
11:15 PM - 11:20 PM	65.2	64.1	-	61.7	63.6	-1.9
11:20 PM - 11:25 PM	65.0	64.0	-	61.8	63.6	-2.5
11:25 PM - 11:30 PM	64.9	64.0	-	60.6	63.6	-3.0
11:30 PM - 11:35 PM	64.9	63.8	-	61.4	63.5	-2.1
11:35 PM - 11:40 PM	64.9	63.8	-	61.4	63.4	-2.0
11:40 PM - 11:45 PM	65.0	63.8	-	61.8	63.5	-1.7
11:45 PM - 11:50 PM	65.1	63.7	-	62.5	63.5	-1.0
11:50 PM - 11:55 PM	65.4	64.3	-	61.9	63.7	-1.8
11:55 PM - 12:00 AM	65.3	64.3	-	61.4	63.6	-2.2
12:00 AM - 12:05 AM	65.3	64.2	-	61.8	63.7	-1.9
12:05 AM - 12:10 AM	65.2	64.3	-	60.9	63.7	-2.8
12:10 AM - 12:15 AM	65.2	64.2	-	61.3	63.6	-2.3
12:15 AM - 12:20 AM	65.2	64.2	-	61.3	63.6	-2.3
12:20 AM - 12:25 AM	65.1	63.8	-	62.2	63.5	-1.3
12:25 AM - 12:30 AM	65.2	63.9	-	62.3	63.6	-1.3

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory: ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432594-7
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date : Apr 08 - 09, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920831

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957025-1

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	65.2	63.9	-	62.3	63.6	-1.3
12:35 AM - 12:40 AM	65.3	63.9	-	62.7	63.6	-0.9
12:40 AM - 12:45 AM	65.2	63.9	-	62.3	63.5	-1.2
12:45 AM - 12:50 AM	65.1	63.9	-	61.9	63.5	-1.6
12:50 AM - 12:55 AM	65.2	63.9	-	62.3	63.6	-1.3
12:55 AM - 01:00 AM	65.2	64.0	-	62.0	63.7	-1.7
01:00 AM - 01:05 AM	65.3	64.1	-	62.1	63.7	-1.6
01:05 AM - 01:10 AM	65.2	63.9	-	62.3	63.6	-1.3
01:10 AM - 01:15 AM	65.3	64.1	-	62.1	63.7	-1.6
01:15 AM - 01:20 AM	65.2	64.0	-	62.0	63.6	-1.6
01:20 AM - 01:25 AM	65.1	63.9	-	61.9	63.5	-1.6
01:25 AM - 01:30 AM	65.1	63.9	-	61.9	63.5	-1.6
01:30 AM - 01:35 AM	65.2	64.0	-	62.0	63.6	-1.6
01:35 AM - 01:40 AM	65.2	64.0	-	62.0	63.7	-1.7
01:40 AM - 01:45 AM	65.1	64.0	-	61.6	63.6	-2.0
01:45 AM - 01:50 AM	65.2	64.1	-	61.7	63.7	-2.0
01:50 AM - 01:55 AM	65.3	64.1	-	62.1	63.7	-1.6
01:55 AM - 02:00 AM	65.3	64.1	-	62.1	63.7	-1.6
02:00 AM - 02:05 AM	65.3	64.1	-	62.1	63.8	-1.7
02:05 AM - 02:10 AM	65.2	64.0	-	62.0	63.7	-1.7
02:10 AM - 02:15 AM	65.0	63.9	-	61.5	63.6	-2.1
02:15 AM - 02:20 AM	65.1	63.9	-	61.9	63.6	-1.7
02:20 AM - 02:25 AM	65.2	63.7	-	62.9	63.5	-0.6
02:25 AM - 02:30 AM	65.9	64.1	-	64.2	63.8	0.4
02:30 AM - 02:35 AM	66.2	64.5	-	64.3	63.8	0.5
02:35 AM - 02:40 AM	65.7	64.1	-	63.6	63.7	-0.1
02:40 AM - 02:45 AM	65.5	64.2	-	62.6	63.8	-1.2
02:45 AM - 02:50 AM	65.5	64.1	-	62.9	63.7	-0.8
02:50 AM - 02:55 AM	65.5	64.1	-	62.9	63.8	-0.9
02:55 AM - 03:00 AM	65.5	64.1	-	62.9	63.8	-0.9
03:00 AM - 03:05 AM	65.3	64.0	-	62.4	63.7	-1.3
03:05 AM - 03:10 AM	65.4	63.9	-	63.1	63.6	-0.5
03:10 AM - 03:15 AM	65.3	64.1	-	62.1	63.8	-1.7
03:15 AM - 03:20 AM	65.3	63.9	-	62.7	63.6	-0.9
03:20 AM - 03:25 AM	65.5	64.0	-	63.2	63.6	-0.4
03:25 AM - 03:30 AM	65.4	64.1	-	62.5	63.7	-1.2
03:30 AM - 03:35 AM	65.0	64.1	-	60.7	63.7	-3.0
03:35 AM - 03:40 AM	64.8	64.0	-	60.1	63.6	-3.5
03:40 AM - 03:45 AM	64.8	64.0	-	60.1	63.6	-3.5
03:45 AM - 03:50 AM	64.9	64.1	-	60.2	63.7	-3.5

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory: ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957025-1

Sample No. 2432594-7
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735368, 1410489)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920831

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	64.9	63.9	-	61.0	63.6	-2.6
03:55 AM - 04:00 AM	65.0	64.0	-	61.1	63.6	-2.5
04:00 AM - 04:05 AM	64.9	64.2	-	59.6	63.8	-4.2
04:05 AM - 04:10 AM	64.7	64.1	-	58.8	63.7	-4.9
04:10 AM - 04:15 AM	64.8	63.9	-	60.5	63.5	-3.0
04:15 AM - 04:20 AM	64.7	63.8	-	60.4	63.5	-3.1
04:20 AM - 04:25 AM	64.7	63.7	-	60.8	63.4	-2.6
04:25 AM - 04:30 AM	64.8	63.8	-	60.9	63.5	-2.6
04:30 AM - 04:35 AM	64.8	63.9	-	60.5	63.5	-3.0
04:35 AM - 04:40 AM	64.8	63.9	-	60.5	63.5	-3.0
04:40 AM - 04:45 AM	65.0	64.1	-	60.7	63.7	-3.0
04:45 AM - 04:50 AM	64.8	64.0	-	60.1	63.6	-3.5
04:50 AM - 04:55 AM	65.0	64.1	-	60.7	63.7	-3.0
04:55 AM - 05:00 AM	64.8	64.0	-	60.1	63.7	-3.6
05:00 AM - 05:05 AM	64.8	64.0	-	60.1	63.6	-3.5
05:05 AM - 05:10 AM	64.8	64.0	-	60.1	63.6	-3.5
05:10 AM - 05:15 AM	64.8	64.0	-	60.1	63.6	-3.5
05:15 AM - 05:20 AM	64.7	63.8	-	60.4	63.5	-3.1
05:20 AM - 05:25 AM	64.8	63.9	-	60.5	63.6	-3.1
05:25 AM - 05:30 AM	65.0	64.0	-	61.1	63.7	-2.6
05:30 AM - 05:35 AM	64.9	64.2	-	59.6	63.7	-4.1
05:35 AM - 05:40 AM	65.0	64.2	-	60.3	63.8	-3.5
05:40 AM - 05:45 AM	64.9	64.0	-	60.6	63.6	-3.0
05:45 AM - 05:50 AM	64.9	64.0	-	60.6	63.7	-3.1
05:50 AM - 05:55 AM	64.8	64.1	-	59.5	63.7	-4.2
05:55 AM - 06:00 AM	64.8	63.9	-	60.5	63.6	-3.1
06:00 AM - 07:00 AM	65.4	64.6	57.7	-	63.7	-6.0
07:00 AM - 08:00 AM	65.9	65.2	57.6	-	63.8	-6.2
08:00 AM - 09:00 AM	65.4	65.0	54.8	-	63.5	-8.7
09:00 AM - 10:00 AM	65.9	64.2	61.0	-	63.4	-2.4
10:00 AM - 11:00 AM	65.7	64.2	60.4	-	63.5	-3.1
11:00 AM - 12:00 PM	65.9	64.4	60.6	-	63.5	-2.9
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark :

- ระดับเสียงจากแหล่งกำเนิด ทิศการตรวจวัด วันที่ 08-09 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-7 วันที่ตรวจวัด 08-09 เมษายน 2567)
- ก/ล : ไม่สามารถคำนวณระดับเสียงขณะมีกิจกรรมเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analysed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957026-1

Sample No. 2432594-8
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735702, 1409730)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	54.0	54.8	n/a	-	51.1	-
01:00 PM - 02:00 PM	58.9	57.4	53.6	-	53.3	0.3
02:00 PM - 03:00 PM	56.6	58.3	n/a	-	54.2	-
03:00 PM - 04:00 PM	56.7	55.4	50.8	-	52.2	-1.4
04:00 PM - 05:00 PM	56.3	56.6	n/a	-	52.1	-
05:00 PM - 06:00 PM	54.5	57.5	n/a	-	51.8	-
06:00 PM - 07:00 PM	46.1	56.3	n/a	-	52.5	-6.4
07:00 PM - 08:00 PM	51.9	52.8	n/a	-	51.4	-
08:00 PM - 09:00 PM	52.6	53.3	n/a	-	51.1	-
09:00 PM - 10:00 PM	56.5	55.3	50.3	-	54.7	-4.4
10:00 PM - 10:05 PM	55.4	53.2	-	54.4	52.8	1.6
10:05 PM - 10:10 PM	51.6	53.1	-	n/a	52.8	-
10:10 PM - 10:15 PM	51.5	53.1	-	n/a	52.7	-
10:15 PM - 10:20 PM	51.7	53.0	-	n/a	52.7	-
10:20 PM - 10:25 PM	51.4	51.5	-	n/a	50.6	-
10:25 PM - 10:30 PM	51.2	51.2	-	n/a	50.7	-
10:30 PM - 10:35 PM	51.4	51.4	-	n/a	50.9	-
10:35 PM - 10:40 PM	51.3	51.2	-	37.9	50.7	-12.8
10:40 PM - 10:45 PM	51.3	51.0	-	42.5	50.6	-8.1
10:45 PM - 10:50 PM	51.2	51.0	-	40.7	50.5	-9.8
10:50 PM - 10:55 PM	51.6	51.0	-	45.7	50.6	-4.9
10:55 PM - 11:00 PM	51.4	51.2	-	40.9	50.5	-9.6
11:00 PM - 11:05 PM	51.4	51.1	-	42.6	50.5	-7.9
11:05 PM - 11:10 PM	51.3	51.5	-	n/a	50.7	-
11:10 PM - 11:15 PM	51.3	51.2	-	37.9	50.6	-12.7
11:15 PM - 11:20 PM	51.2	51.3	-	n/a	50.6	-
11:20 PM - 11:25 PM	51.2	51.1	-	37.8	50.6	-12.8
11:25 PM - 11:30 PM	51.1	51.1	-	n/a	50.6	-
11:30 PM - 11:35 PM	51.3	50.9	-	43.7	50.5	-6.8
11:35 PM - 11:40 PM	54.0	51.0	-	54.0	50.5	3.5
11:40 PM - 11:45 PM	53.6	50.9	-	53.3	50.5	2.8
11:45 PM - 11:50 PM	56.5	51.0	-	58.1	50.6	7.5
11:50 PM - 11:55 PM	56.3	55.4	-	52.0	50.8	1.2
11:55 PM - 12:00 AM	55.0	59.8	-	n/a	56.7	-
12:00 AM - 12:05 AM	54.0	62.5	-	n/a	61.9	-
12:05 AM - 12:10 AM	53.9	61.0	-	n/a	58.6	-
12:10 AM - 12:15 AM	53.8	56.0	-	n/a	55.5	-
12:15 AM - 12:20 AM	54.2	55.7	-	n/a	55.3	-
12:20 AM - 12:25 AM	53.9	55.6	-	n/a	55.4	-
12:25 AM - 12:30 AM	54.5	55.6	-	n/a	55.3	-

The above results are valid only for the analysed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957026-1

Sample No. 2432594-8
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	57.5	55.9	-	55.4	55.4	0.0
12:35 AM - 12:40 AM	56.3	55.6	-	51.0	55.3	-4.3
12:40 AM - 12:45 AM	51.5	55.6	-	n/a	55.4	-
12:45 AM - 12:50 AM	51.3	56.7	-	n/a	56.4	-
12:50 AM - 12:55 AM	51.4	55.0	-	n/a	52.9	-
12:55 AM - 01:00 AM	51.2	51.2	-	n/a	50.5	-
01:00 AM - 01:05 AM	51.2	50.9	-	42.4	50.6	-8.2
01:05 AM - 01:10 AM	51.5	51.0	-	44.9	50.6	-5.7
01:10 AM - 01:15 AM	51.5	51.0	-	44.9	50.6	-5.7
01:15 AM - 01:20 AM	51.3	51.0	-	42.5	50.6	-8.1
01:20 AM - 01:25 AM	51.3	51.2	-	37.9	50.8	-12.9
01:25 AM - 01:30 AM	51.3	51.3	-	n/a	50.7	-
01:30 AM - 01:35 AM	51.3	51.0	-	42.5	50.6	-8.1
01:35 AM - 01:40 AM	52.7	51.2	-	50.4	50.6	-0.2
01:40 AM - 01:45 AM	51.2	50.9	-	42.4	50.6	-8.2
01:45 AM - 01:50 AM	51.2	50.9	-	42.4	50.6	-8.2
01:50 AM - 01:55 AM	51.2	52.5	-	n/a	50.6	-
01:55 AM - 02:00 AM	51.2	51.0	-	40.7	50.6	-9.9
02:00 AM - 02:05 AM	52.9	50.9	-	51.6	50.6	1.0
02:05 AM - 02:10 AM	56.0	50.9	-	57.4	50.6	6.8
02:10 AM - 02:15 AM	53.3	50.9	-	52.6	50.6	2.0
02:15 AM - 02:20 AM	51.4	51.3	-	38.0	50.5	-12.5
02:20 AM - 02:25 AM	51.2	53.2	-	n/a	52.9	-
02:25 AM - 02:30 AM	51.5	51.8	-	n/a	50.5	-
02:30 AM - 02:35 AM	51.3	51.0	-	42.5	50.6	-8.1
02:35 AM - 02:40 AM	51.4	50.8	-	45.5	50.5	-5.0
02:40 AM - 02:45 AM	51.3	50.9	-	43.7	50.5	-6.8
02:45 AM - 02:50 AM	51.4	50.9	-	44.8	50.5	-5.7
02:50 AM - 02:55 AM	51.2	50.9	-	42.4	50.6	-8.2
02:55 AM - 03:00 AM	51.2	50.8	-	43.6	50.5	-6.9
03:00 AM - 03:05 AM	51.2	50.9	-	42.4	50.6	-8.2
03:05 AM - 03:10 AM	52.4	50.8	-	50.3	50.4	-0.1
03:10 AM - 03:15 AM	51.1	50.9	-	40.6	50.6	-10.0
03:15 AM - 03:20 AM	51.4	50.8	-	45.5	50.5	-5.0
03:20 AM - 03:25 AM	51.2	52.3	-	n/a	50.3	-
03:25 AM - 03:30 AM	51.2	50.7	-	44.6	50.4	-5.8
03:30 AM - 03:35 AM	51.2	51.1	-	37.8	50.6	-12.8
03:35 AM - 03:40 AM	51.1	50.8	-	42.3	50.5	-8.2
03:40 AM - 03:45 AM	51.1	50.8	-	42.3	50.4	-8.1
03:45 AM - 03:50 AM	51.1	50.9	-	40.6	50.5	-9.9

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957026-1

Sample No. 2432594-8
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.2	50.8	-	43.6	50.5	-6.9
03:55 AM - 04:00 AM	52.3	50.8	-	50.0	50.5	-0.5
04:00 AM - 04:05 AM	53.9	50.8	-	54.0	50.5	3.5
04:05 AM - 04:10 AM	53.6	50.9	-	53.3	50.5	2.8
04:10 AM - 04:15 AM	53.5	52.7	-	48.8	50.5	-1.7
04:15 AM - 04:20 AM	53.5	55.4	-	n/a	54.6	-
04:20 AM - 04:25 AM	53.9	54.9	-	n/a	54.6	-
04:25 AM - 04:30 AM	52.5	54.9	-	n/a	54.6	-
04:30 AM - 04:35 AM	51.2	55.0	-	n/a	54.8	-
04:35 AM - 04:40 AM	51.2	55.3	-	n/a	55.0	-
04:40 AM - 04:45 AM	51.2	53.6	-	n/a	50.8	-
04:45 AM - 04:50 AM	51.2	50.8	-	43.6	50.4	-6.8
04:50 AM - 04:55 AM	51.2	50.9	-	42.4	50.5	-8.1
04:55 AM - 05:00 AM	51.2	50.9	-	42.4	50.5	-8.1
05:00 AM - 05:05 AM	51.2	50.9	-	42.4	50.5	-8.1
05:05 AM - 05:10 AM	51.2	50.8	-	43.6	50.4	-6.8
05:10 AM - 05:15 AM	51.1	50.9	-	40.6	50.5	-9.9
05:15 AM - 05:20 AM	51.9	50.9	-	48.0	50.5	-2.5
05:20 AM - 05:25 AM	52.2	50.9	-	49.3	50.5	-1.2
05:25 AM - 05:30 AM	52.2	50.9	-	49.3	50.5	-1.2
05:30 AM - 05:35 AM	57.8	51.7	-	59.6	50.5	9.1
05:35 AM - 05:40 AM	55.9	53.5	-	55.2	50.6	4.6
05:40 AM - 05:45 AM	53.0	53.1	-	n/a	51.0	-
05:45 AM - 05:50 AM	58.7	66.9	-	n/a	51.4	-
05:50 AM - 05:55 AM	56.5	67.2	-	n/a	65.8	-
05:55 AM - 06:00 AM	59.6	60.8	-	n/a	53.4	-
06:00 AM - 07:00 AM	56.1	55.1	49.2	-	53.3	-4.1
07:00 AM - 08:00 AM	59.4	62.1	n/a	-	54.0	-
08:00 AM - 09:00 AM	59.0	61.2	n/a	-	55.8	-
09:00 AM - 10:00 AM	58.0	58.9	n/a	-	52.7	-
10:00 AM - 11:00 AM	57.8	58.8	n/a	-	55.6	-
11:00 AM - 12:00 PM	56.2	58.0	n/a	-	53.9	-

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเมื่อพิจารณาถึงความเสี่ยงทางเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจ วันที่ 02-03 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-8 วันที่ตรวจวัด 02-03 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะมีการรบกวน

Approved by

WibB.
Wilawan Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.
Wilawan Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. is an ALS Limited Company

ADDRESS 616/10 Moo 3 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. is an ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957027-1

Page 1 of 3

Sample No. 2432594-9
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	54.4	54.2	40.9	-	51.0	-10.1
01:00 PM - 02:00 PM	54.9	56.0	n/a	-	51.5	-
02:00 PM - 03:00 PM	56.4	57.5	n/a	-	53.5	-
03:00 PM - 04:00 PM	55.3	56.0	n/a	-	53.4	-
04:00 PM - 05:00 PM	54.2	54.0	40.7	-	51.3	-10.6
05:00 PM - 06:00 PM	54.0	53.5	44.4	-	51.3	-6.9
06:00 PM - 07:00 PM	55.5	62.7	n/a	-	59.2	-
07:00 PM - 08:00 PM	54.3	55.3	n/a	-	51.9	-
08:00 PM - 09:00 PM	52.4	52.1	40.6	-	50.8	-10.2
09:00 PM - 10:00 PM	51.4	52.7	n/a	-	50.8	-
10:00 PM - 10:05 PM	51.3	52.2	-	n/a	50.8	-
10:05 PM - 10:10 PM	51.3	52.2	-	n/a	50.7	-
10:10 PM - 10:15 PM	51.3	52.2	-	n/a	50.7	-
10:15 PM - 10:20 PM	51.2	51.9	-	n/a	50.7	-
10:20 PM - 10:25 PM	52.0	52.0	-	n/a	50.6	-
10:25 PM - 10:30 PM	51.3	52.3	-	n/a	50.6	-
10:30 PM - 10:35 PM	51.6	52.3	-	n/a	50.6	-
10:35 PM - 10:40 PM	51.9	52.5	-	n/a	50.7	-
10:40 PM - 10:45 PM	51.5	52.1	-	n/a	50.7	-
10:45 PM - 10:50 PM	51.2	52.3	-	n/a	50.9	-
10:50 PM - 10:55 PM	51.1	52.6	-	n/a	51.0	-
10:55 PM - 11:00 PM	51.3	52.3	-	n/a	50.9	-
11:00 PM - 11:05 PM	51.5	51.7	-	n/a	50.5	-
11:05 PM - 11:10 PM	51.6	51.8	-	n/a	50.5	-
11:10 PM - 11:15 PM	51.4	52.1	-	n/a	50.6	-
11:15 PM - 11:20 PM	51.4	52.1	-	n/a	50.7	-
11:20 PM - 11:25 PM	51.3	52.4	-	n/a	50.7	-
11:25 PM - 11:30 PM	51.3	51.3	-	n/a	50.6	-
11:30 PM - 11:35 PM	51.4	51.6	-	n/a	50.6	-
11:35 PM - 11:40 PM	51.8	51.8	-	n/a	50.6	-
11:40 PM - 11:45 PM	51.4	51.4	-	n/a	50.5	-
11:45 PM - 11:50 PM	51.4	51.9	-	n/a	50.6	-
11:50 PM - 11:55 PM	51.4	51.9	-	n/a	50.7	-
11:55 PM - 12:00 AM	51.8	51.7	38.4	-	50.7	-12.3
12:00 AM - 12:05 AM	51.3	51.4	-	n/a	50.7	-
12:05 AM - 12:10 AM	51.2	51.6	-	n/a	50.6	-
12:10 AM - 12:15 AM	51.3	52.0	-	n/a	50.6	-
12:15 AM - 12:20 AM	51.9	51.3	46.0	-	50.6	-4.6
12:20 AM - 12:25 AM	52.4	51.4	48.5	-	50.5	-2.0
12:25 AM - 12:30 AM	54.7	51.7	-	54.7	50.6	4.1

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Kho A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957027-1

Page 2 of 3

Sample No. 2432594-9
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	54.4	52.0	-	53.7	50.7	3.0
12:35 AM - 12:40 AM	52.1	53.0	-	n/a	50.8	-
12:40 AM - 12:45 AM	51.5	57.6	-	n/a	55.6	-
12:45 AM - 12:50 AM	51.3	57.5	-	n/a	55.4	-
12:50 AM - 12:55 AM	51.4	52.5	-	n/a	52.0	-
12:55 AM - 01:00 AM	52.0	51.2	-	47.3	50.7	-3.4
01:00 AM - 01:05 AM	66.9	63.6	-	67.2	62.5	4.7
01:05 AM - 01:10 AM	65.1	61.3	-	65.8	60.0	5.8
01:10 AM - 01:15 AM	58.4	57.3	-	54.9	50.7	4.2
01:15 AM - 01:20 AM	51.5	50.6	-	47.2	49.5	-2.3
01:20 AM - 01:25 AM	51.4	50.3	-	47.9	49.0	-1.1
01:25 AM - 01:30 AM	51.3	54.7	-	n/a	50.7	-
01:30 AM - 01:35 AM	51.5	51.1	-	43.9	50.7	-6.8
01:35 AM - 01:40 AM	51.4	50.9	-	44.8	50.6	-5.8
01:40 AM - 01:45 AM	51.4	50.8	-	45.5	50.4	-4.9
01:45 AM - 01:50 AM	51.4	51.0	-	43.8	50.7	-6.9
01:50 AM - 01:55 AM	51.3	51.0	-	42.5	50.6	-8.1
01:55 AM - 02:00 AM	51.2	51.0	-	40.7	50.6	-9.9
02:00 AM - 02:05 AM	51.4	50.9	-	44.8	50.5	-5.7
02:05 AM - 02:10 AM	51.3	50.9	-	43.7	50.5	-6.8
02:10 AM - 02:15 AM	51.4	50.8	-	45.5	50.5	-5.0
02:15 AM - 02:20 AM	51.4	50.9	-	44.8	50.6	-5.8
02:20 AM - 02:25 AM	51.4	50.9	-	44.8	50.6	-5.8
02:25 AM - 02:30 AM	51.3	50.9	-	43.7	50.6	-6.9
02:30 AM - 02:35 AM	51.3	50.9	-	43.7	50.6	-6.9
02:35 AM - 02:40 AM	51.3	50.9	-	43.7	50.6	-6.8
02:40 AM - 02:45 AM	51.2	50.8	-	43.6	50.4	-6.8
02:45 AM - 02:50 AM	51.3	50.8	-	44.7	50.5	-5.8
02:50 AM - 02:55 AM	51.1	50.8	-	42.3	50.5	-8.2
02:55 AM - 03:00 AM	51.1	50.8	-	42.3	50.5	-8.2
03:00 AM - 03:05 AM	51.3	50.9	-	43.7	50.5	-6.8
03:05 AM - 03:10 AM	51.1	50.7	-	43.5	50.4	-6.9
03:10 AM - 03:15 AM	51.2	50.7	-	44.6	50.4	-5.8
03:15 AM - 03:20 AM	51.1	51.0	-	37.7	50.4	-12.7
03:20 AM - 03:25 AM	51.1	50.6	-	44.5	50.3	-5.8
03:25 AM - 03:30 AM	51.1	50.9	-	40.6	50.5	-9.9
03:30 AM - 03:35 AM	51.2	50.7	-	44.6	50.4	-5.8
03:35 AM - 03:40 AM	51.2	50.7	-	44.6	50.3	-5.7
03:40 AM - 03:45 AM	51.2	50.8	-	43.6	50.4	-6.8
03:45 AM - 03:50 AM	51.1	50.7	-	43.5	50.4	-6.9

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Kho A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957027-1

Sample No. : 2432594-9
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920833

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.1	50.8	-	42.3	50.5	-8.2
03:55 AM - 04:00 AM	51.4	50.9	-	44.8	50.5	-5.7
04:00 AM - 04:05 AM	51.2	51.2	-	n/a	50.5	-
04:05 AM - 04:10 AM	51.2	51.1	-	37.8	50.4	-12.6
04:10 AM - 04:15 AM	51.2	51.9	-	n/a	50.6	-
04:15 AM - 04:20 AM	51.5	51.1	-	43.9	50.5	-6.6
04:20 AM - 04:25 AM	51.3	51.2	-	37.9	50.5	-12.6
04:25 AM - 04:30 AM	51.3	50.9	-	43.7	50.5	-6.8
04:30 AM - 04:35 AM	51.3	51.3	-	n/a	50.5	-
04:35 AM - 04:40 AM	51.1	50.9	-	40.6	50.5	-9.9
04:40 AM - 04:45 AM	51.6	51.1	-	45.0	50.4	-5.4
04:45 AM - 04:50 AM	51.2	51.0	-	40.7	50.5	-9.8
04:50 AM - 04:55 AM	51.2	50.8	-	43.6	50.4	-6.8
04:55 AM - 05:00 AM	51.4	51.5	-	n/a	50.4	-
05:00 AM - 05:05 AM	51.4	50.9	-	44.8	50.4	-5.6
05:05 AM - 05:10 AM	51.5	50.9	-	45.6	50.4	-4.8
05:10 AM - 05:15 AM	51.5	51.2	-	42.7	50.6	-7.9
05:15 AM - 05:20 AM	51.5	51.0	-	44.9	50.6	-5.7
05:20 AM - 05:25 AM	51.6	51.1	-	45.0	50.6	-5.6
05:25 AM - 05:30 AM	51.5	51.2	-	42.7	50.7	-8.0
05:30 AM - 05:35 AM	52.6	51.2	-	50.0	50.6	-0.6
05:35 AM - 05:40 AM	54.3	51.3	-	54.3	50.7	3.6
05:40 AM - 05:45 AM	49.9	51.2	-	n/a	50.7	-
05:45 AM - 05:50 AM	51.5	51.3	-	41.0	41.4	-0.4
05:50 AM - 05:55 AM	53.6	52.4	-	50.4	49.3	1.1
05:55 AM - 06:00 AM	54.1	51.1	-	54.1	49.1	5.0
06:00 AM - 07:00 AM	54.3	53.4	47.0	-	51.8	-4.8
07:00 AM - 08:00 AM	55.1	55.7	n/a	-	52.6	-
08:00 AM - 09:00 AM	56.0	54.9	49.5	-	51.8	-2.3
09:00 AM - 10:00 AM	57.1	58.2	n/a	-	54.8	-
10:00 AM - 11:00 AM	57.2	56.4	49.5	-	54.2	-4.7
11:00 AM - 12:00 PM	55.1	55.8	n/a	-	53.0	-

ค่ามาตรฐาน

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิกัดตรวจวัด วันที่ 03-04 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-9 วันที่ตรวจวัด 03-04 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีกิจกรรมเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) therefore recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERSHIP



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957028-1

Sample No. : 2432594-10
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920833

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	54.2	53.7	44.6	-	51.6	-7.0
01:00 PM - 02:00 PM	55.5	54.7	47.8	-	51.8	-4.0
02:00 PM - 03:00 PM	56.1	55.0	49.6	-	51.9	-2.3
03:00 PM - 04:00 PM	55.1	55.7	n/a	-	53.1	-
04:00 PM - 05:00 PM	53.8	53.7	37.4	-	51.3	-13.9
05:00 PM - 06:00 PM	53.7	54.3	n/a	-	52.2	-
06:00 PM - 07:00 PM	59.1	58.7	48.5	-	52.8	-4.3
07:00 PM - 08:00 PM	58.8	58.6	45.3	-	57.0	-11.7
08:00 PM - 09:00 PM	52.1	52.3	n/a	-	51.0	-
09:00 PM - 10:00 PM	51.8	51.4	41.2	-	50.7	-9.5
10:00 PM - 10:05 PM	51.8	51.4	-	44.2	50.8	-6.6
10:05 PM - 10:10 PM	51.4	51.3	-	38.0	50.7	-12.7
10:10 PM - 10:15 PM	51.6	51.0	-	45.7	50.6	-4.5
10:15 PM - 10:20 PM	51.9	51.0	-	47.6	50.5	-2.9
10:20 PM - 10:25 PM	54.8	54.3	-	48.2	51.0	-2.8
10:25 PM - 10:30 PM	54.0	56.8	-	n/a	56.1	-
10:30 PM - 10:35 PM	52.9	54.9	-	n/a	54.0	-
10:35 PM - 10:40 PM	52.0	53.1	-	n/a	52.0	-
10:40 PM - 10:45 PM	51.4	51.9	-	n/a	51.0	-
10:45 PM - 10:50 PM	52.7	52.3	-	45.1	50.7	-5.6
10:50 PM - 10:55 PM	51.5	51.9	-	n/a	50.6	-
10:55 PM - 11:00 PM	51.5	51.2	-	42.7	50.5	-7.8
11:00 PM - 11:05 PM	51.4	51.3	-	38.0	50.6	-12.6
11:05 PM - 11:10 PM	51.5	51.4	-	38.1	50.6	-12.5
11:10 PM - 11:15 PM	51.5	51.2	-	42.7	50.6	-7.9
11:15 PM - 11:20 PM	51.6	51.4	-	41.1	50.8	-9.7
11:20 PM - 11:25 PM	51.6	51.4	-	41.1	50.8	-9.7
11:25 PM - 11:30 PM	51.5	51.0	-	44.9	50.5	-5.6
11:30 PM - 11:35 PM	51.6	51.4	-	41.1	50.8	-9.7
11:35 PM - 11:40 PM	52.2	51.5	-	46.9	50.8	-3.9
11:40 PM - 11:45 PM	52.5	52.9	-	n/a	51.9	-
11:45 PM - 11:50 PM	52.5	52.6	-	n/a	51.7	-
11:50 PM - 11:55 PM	51.7	52.8	-	n/a	51.3	-
11:55 PM - 12:00 AM	51.6	51.1	-	45.0	50.6	-5.6
12:00 AM - 12:05 AM	51.7	51.1	-	45.8	50.6	-4.8
12:05 AM - 12:10 AM	51.8	51.4	-	44.2	50.7	-6.5
12:10 AM - 12:15 AM	51.7	51.3	-	44.1	50.7	-6.6
12:15 AM - 12:20 AM	51.9	51.4	-	45.3	50.7	-5.4
12:20 AM - 12:25 AM	51.7	51.5	-	41.2	50.7	-9.5
12:25 AM - 12:30 AM	51.8	51.3	-	45.2	50.8	-5.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) therefore recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERSHIP



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957028-1

Page 2 of 3

Sample No. 2432594-10
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735702, 1409730)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	52.1	51.3	-	47.4	50.8	-3.4
12:35 AM - 12:40 AM	52.3	52.4	-	n/a	51.8	-
12:40 AM - 12:45 AM	51.9	52.0	-	n/a	51.4	-
12:45 AM - 12:50 AM	52.5	54.2	-	n/a	51.1	-
12:50 AM - 12:55 AM	51.8	51.8	-	n/a	50.6	-
12:55 AM - 01:00 AM	51.8	51.3	-	45.2	50.7	-5.5
01:00 AM - 01:05 AM	51.6	51.0	-	45.7	50.5	-4.8
01:05 AM - 01:10 AM	51.8	51.0	-	47.1	50.6	-3.5
01:10 AM - 01:15 AM	51.8	51.3	-	45.2	50.7	-5.5
01:15 AM - 01:20 AM	51.6	51.5	-	38.2	50.6	-12.4
01:20 AM - 01:25 AM	51.7	51.2	-	45.1	50.6	-5.5
01:25 AM - 01:30 AM	51.5	51.3	-	41.0	50.6	-9.6
01:30 AM - 01:35 AM	51.5	51.1	-	43.9	50.5	-6.6
01:35 AM - 01:40 AM	51.4	51.1	-	42.6	50.5	-7.9
01:40 AM - 01:45 AM	51.5	51.1	-	43.9	50.5	-6.6
01:45 AM - 01:50 AM	51.5	51.0	-	44.9	50.5	-5.6
01:50 AM - 01:55 AM	52.4	51.0	-	49.8	50.5	-0.7
01:55 AM - 02:00 AM	54.1	52.0	-	52.9	51.0	1.9
02:00 AM - 02:05 AM	53.1	52.5	-	47.2	51.2	-4.0
02:05 AM - 02:10 AM	51.6	51.9	-	n/a	50.8	-
02:10 AM - 02:15 AM	51.4	51.0	-	43.8	50.4	-6.6
02:15 AM - 02:20 AM	51.7	51.1	-	45.8	50.6	-4.8
02:20 AM - 02:25 AM	51.8	51.0	-	47.1	50.5	-3.4
02:25 AM - 02:30 AM	52.4	51.9	-	45.8	50.8	-5.0
02:30 AM - 02:35 AM	52.0	51.1	-	47.7	50.6	-2.9
02:35 AM - 02:40 AM	51.5	51.4	-	38.1	50.5	-12.4
02:40 AM - 02:45 AM	51.5	50.9	-	45.6	50.5	-4.9
02:45 AM - 02:50 AM	51.6	50.9	-	46.3	50.4	-4.1
02:50 AM - 02:55 AM	51.6	51.0	-	45.7	50.5	-4.8
02:55 AM - 03:00 AM	51.6	51.0	-	45.7	50.5	-4.8
03:00 AM - 03:05 AM	51.5	50.9	-	45.6	50.5	-4.9
03:05 AM - 03:10 AM	52.2	50.9	-	49.3	50.5	-1.2
03:10 AM - 03:15 AM	51.4	51.8	-	n/a	50.6	-
03:15 AM - 03:20 AM	51.6	50.9	-	46.3	50.4	-4.1
03:20 AM - 03:25 AM	51.5	50.9	-	45.6	50.4	-4.8
03:25 AM - 03:30 AM	51.4	51.0	-	43.8	50.6	-6.8
03:30 AM - 03:35 AM	51.3	50.9	-	43.7	50.5	-6.8
03:35 AM - 03:40 AM	51.2	50.7	-	44.6	50.3	-5.7
03:40 AM - 03:45 AM	51.1	50.6	-	44.5	50.2	-5.7
03:45 AM - 03:50 AM	52.8	51.1	-	50.9	50.3	0.6

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957028-1

Page 3 of 3

Sample No. 2432594-10
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735702, 1409730)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.9	52.4	-	n/a	51.6	-
03:55 AM - 04:00 AM	51.4	51.2	-	40.9	50.6	-9.7
04:00 AM - 04:05 AM	51.5	51.0	-	44.9	50.5	-5.6
04:05 AM - 04:10 AM	51.5	51.0	-	44.9	50.5	-5.6
04:10 AM - 04:15 AM	51.3	50.8	-	44.7	50.2	-5.5
04:15 AM - 04:20 AM	51.8	50.9	-	47.5	50.4	-2.9
04:20 AM - 04:25 AM	51.4	51.1	-	42.6	50.4	-7.8
04:25 AM - 04:30 AM	51.5	50.8	-	46.2	50.3	-4.1
04:30 AM - 04:35 AM	51.5	51.0	-	44.9	50.5	-5.6
04:35 AM - 04:40 AM	51.4	50.9	-	44.8	50.5	-5.7
04:40 AM - 04:45 AM	51.2	50.8	-	43.6	50.4	-6.8
04:45 AM - 04:50 AM	51.2	50.7	-	44.6	50.3	-5.7
04:50 AM - 04:55 AM	51.4	50.7	-	46.1	50.2	-4.1
04:55 AM - 05:00 AM	51.5	50.8	-	46.2	50.4	-4.2
05:00 AM - 05:05 AM	51.3	51.0	-	42.5	50.4	-7.9
05:05 AM - 05:10 AM	51.5	50.7	-	46.8	50.3	-3.5
05:10 AM - 05:15 AM	57.1	56.8	-	48.3	50.5	-2.2
05:15 AM - 05:20 AM	56.9	54.8	-	55.7	54.3	1.4
05:20 AM - 05:25 AM	59.3	55.9	-	59.6	55.3	4.3
05:25 AM - 05:30 AM	51.3	54.5	-	n/a	50.3	-
05:30 AM - 05:35 AM	51.3	50.8	-	44.7	50.5	-5.8
05:35 AM - 05:40 AM	51.4	50.7	-	46.1	50.3	-4.2
05:40 AM - 05:45 AM	51.4	50.8	-	45.5	50.4	-4.9
05:45 AM - 05:50 AM	51.3	50.8	-	44.7	50.4	-5.7
05:50 AM - 05:55 AM	53.0	51.0	-	51.7	50.4	1.3
05:55 AM - 06:00 AM	53.0	56.5	-	n/a	50.7	-
06:00 AM - 07:00 AM	61.9	60.9	55.0	-	59.4	-4.4
07:00 AM - 08:00 AM	55.5	56.5	n/a	-	51.7	-
08:00 AM - 09:00 AM	59.0	58.4	50.1	-	55.9	-5.8
09:00 AM - 10:00 AM	58.2	58.9	n/a	-	53.2	-
10:00 AM - 11:00 AM	55.0	54.2	-	47.3	50.7	-3.4
11:00 AM - 12:00 PM	57.7	57.1	48.8	-	53.3	-4.5

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทดลองตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรมการรบกวน (Sample No.2432591-10 วันที่ตรวจวัด 04-05 เมษายน 2567)
- n/a: ไม่สามารถหาหรือระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดอยู่ต่ำกว่าขีดจำกัดระดับเสียงขณะไม่มีกิจกรรมการรบกวน

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957029-1

Sample No. 2432594-11
Parameter เสียงรบกวน
Location หน้าโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	55.7	54.8	48.4	-	51.1	-2.7
01:00 PM - 02:00 PM	53.3	53.6	n/a	-	50.6	-
02:00 PM - 03:00 PM	60.6	59.4	54.4	-	56.0	-1.6
03:00 PM - 04:00 PM	53.8	53.8	n/a	-	50.9	-
04:00 PM - 05:00 PM	55.6	54.6	48.7	-	51.3	-2.6
05:00 PM - 06:00 PM	54.1	53.4	45.8	-	51.5	-5.7
06:00 PM - 07:00 PM	61.8	60.1	56.9	-	57.5	-0.6
07:00 PM - 08:00 PM	52.8	52.1	44.5	-	51.1	-6.6
08:00 PM - 09:00 PM	52.1	51.5	43.2	-	50.9	-7.7
09:00 PM - 10:00 PM	54.9	53.0	50.4	-	52.0	-1.6
10:00 PM - 10:05 PM	52.1	51.7	-	44.5	51.1	-6.6
10:05 PM - 10:10 PM	52.8	52.0	-	48.1	51.2	-3.1
10:10 PM - 10:15 PM	52.3	51.9	-	44.7	51.2	-6.5
10:15 PM - 10:20 PM	52.4	51.7	-	47.1	51.1	-4.0
10:20 PM - 10:25 PM	52.3	51.9	-	44.7	51.3	-6.6
10:25 PM - 10:30 PM	52.4	51.6	-	47.7	51.0	-3.3
10:30 PM - 10:35 PM	52.8	51.6	-	49.6	51.0	-1.4
10:35 PM - 10:40 PM	56.0	57.4	-	n/a	54.3	-
10:40 PM - 10:45 PM	55.2	57.7	-	n/a	55.9	-
10:45 PM - 10:50 PM	52.7	53.8	-	n/a	52.1	-
10:50 PM - 10:55 PM	52.5	52.1	-	44.9	51.5	-6.6
10:55 PM - 11:00 PM	52.2	51.5	-	46.9	51.1	-4.2
11:00 PM - 11:05 PM	55.0	52.6	-	54.3	51.2	3.1
11:05 PM - 11:10 PM	56.7	53.4	-	57.0	52.7	4.1
11:10 PM - 11:15 PM	57.4	54.5	-	57.3	53.3	4.0
11:15 PM - 11:20 PM	57.1	54.2	-	57.0	52.2	4.8
11:20 PM - 11:25 PM	59.2	56.3	-	59.1	54.9	4.2
11:25 PM - 11:30 PM	52.6	53.1	-	n/a	51.4	-
11:30 PM - 11:35 PM	52.3	51.9	-	44.7	51.3	-6.6
11:35 PM - 11:40 PM	52.2	52.2	-	n/a	51.4	-
11:40 PM - 11:45 PM	52.2	52.2	-	n/a	51.4	-
11:45 PM - 11:50 PM	52.7	52.4	-	43.9	51.5	-7.6
11:50 PM - 11:55 PM	52.2	52.2	-	n/a	51.4	-
11:55 PM - 12:00 AM	52.5	52.2	-	43.7	51.4	-7.7
12:00 AM - 12:05 AM	54.3	53.7	-	48.4	51.3	-2.9
12:05 AM - 12:10 AM	52.4	52.2	-	41.9	51.2	-9.3
12:10 AM - 12:15 AM	53.0	52.8	-	42.5	51.4	-8.9
12:15 AM - 12:20 AM	52.2	51.8	-	44.6	51.2	-6.6
12:20 AM - 12:25 AM	52.4	52.0	-	44.8	51.4	-6.6
12:25 AM - 12:30 AM	52.8	52.6	-	42.3	51.2	-8.9

Approved by

Wilwan Borirak
Wilwan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957029-1

Sample No. 2432594-11
Parameter เสียงรบกวน
Location หน้าโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	52.1	51.8	-	43.3	51.1	-7.8
12:35 AM - 12:40 AM	52.1	51.9	-	41.6	51.1	-9.5
12:40 AM - 12:45 AM	51.9	51.7	-	41.4	51.0	-9.6
12:45 AM - 12:50 AM	51.8	51.8	-	n/a	51.0	-
12:50 AM - 12:55 AM	51.8	51.5	-	43.0	50.9	-7.9
12:55 AM - 01:00 AM	52.1	52.1	-	n/a	51.0	-
01:00 AM - 01:05 AM	51.8	51.6	-	41.3	50.9	-9.6
01:05 AM - 01:10 AM	52.1	52.0	-	38.7	51.0	-12.3
01:10 AM - 01:15 AM	53.0	52.8	-	42.5	51.6	-9.1
01:15 AM - 01:20 AM	52.5	52.5	-	n/a	51.6	-
01:20 AM - 01:25 AM	51.9	51.8	-	38.5	51.1	-12.6
01:25 AM - 01:30 AM	51.9	51.6	-	43.1	51.0	-7.9
01:30 AM - 01:35 AM	51.9	51.7	-	41.4	51.0	-9.6
01:35 AM - 01:40 AM	51.8	51.5	-	43.0	50.8	-7.8
01:40 AM - 01:45 AM	51.8	51.7	-	38.4	51.0	-12.6
01:45 AM - 01:50 AM	52.3	51.7	-	46.4	50.9	-4.5
01:50 AM - 01:55 AM	51.6	51.6	-	n/a	50.9	-
01:55 AM - 02:00 AM	51.5	51.5	-	n/a	50.8	-
02:00 AM - 02:05 AM	51.7	51.5	-	41.2	50.7	-9.5
02:05 AM - 02:10 AM	51.4	51.4	-	n/a	50.6	-
02:10 AM - 02:15 AM	51.4	51.5	-	n/a	50.7	-
02:15 AM - 02:20 AM	51.4	51.5	-	n/a	50.6	-
02:20 AM - 02:25 AM	51.5	51.4	-	38.1	50.7	-12.6
02:25 AM - 02:30 AM	51.4	51.1	-	42.6	50.6	-8.0
02:30 AM - 02:35 AM	51.5	51.2	-	42.7	50.6	-7.9
02:35 AM - 02:40 AM	51.4	51.2	-	40.9	50.6	-9.7
02:40 AM - 02:45 AM	51.5	51.3	-	41.0	50.6	-9.6
02:45 AM - 02:50 AM	51.6	51.2	-	44.0	50.6	-6.6
02:50 AM - 02:55 AM	52.6	52.6	-	n/a	50.6	-
02:55 AM - 03:00 AM	51.4	51.1	-	42.6	50.4	-7.8
03:00 AM - 03:05 AM	51.4	51.0	-	43.8	50.4	-6.6
03:05 AM - 03:10 AM	51.4	51.3	-	38.0	50.6	-12.6
03:10 AM - 03:15 AM	51.5	51.2	-	42.7	50.5	-7.8
03:15 AM - 03:20 AM	51.3	51.2	-	37.9	50.5	-12.6
03:20 AM - 03:25 AM	51.5	51.0	-	44.9	50.5	-5.6
03:25 AM - 03:30 AM	51.5	51.2	-	42.7	50.5	-7.8
03:30 AM - 03:35 AM	51.2	51.2	-	n/a	50.6	-
03:35 AM - 03:40 AM	51.1	51.1	-	n/a	50.5	-
03:40 AM - 03:45 AM	51.4	51.1	-	42.6	50.5	-7.9
03:45 AM - 03:50 AM	51.3	51.2	-	37.9	50.2	-12.3

Approved by

Wilwan Borirak
Wilwan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957029-1

Sample No. 2432594-11
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.6	51.4	-	41.1	50.6	-9.5
03:55 AM - 04:00 AM	51.3	51.2	-	37.9	50.5	-12.6
04:00 AM - 04:05 AM	51.0	50.9	-	37.6	50.3	-12.7
04:05 AM - 04:10 AM	51.3	51.1	-	40.8	50.5	-9.7
04:10 AM - 04:15 AM	51.1	51.0	-	37.7	50.3	-12.6
04:15 AM - 04:20 AM	51.2	51.4	-	n/a	50.5	-
04:20 AM - 04:25 AM	51.1	51.0	-	37.7	50.3	-12.6
04:25 AM - 04:30 AM	51.1	51.1	-	n/a	50.5	-
04:30 AM - 04:35 AM	50.9	50.7	-	40.4	50.2	-9.8
04:35 AM - 04:40 AM	51.3	50.8	-	44.7	50.2	-5.5
04:40 AM - 04:45 AM	51.2	50.8	-	43.6	50.4	-6.8
04:45 AM - 04:50 AM	51.2	50.7	-	44.6	50.2	-5.6
04:50 AM - 04:55 AM	51.3	51.1	-	40.8	50.4	-9.6
04:55 AM - 05:00 AM	51.3	51.0	-	42.5	50.4	-7.9
05:00 AM - 05:05 AM	51.2	50.9	-	42.4	50.3	-7.9
05:05 AM - 05:10 AM	51.3	51.3	-	n/a	50.5	-
05:10 AM - 05:15 AM	51.3	51.1	-	40.8	50.5	-9.7
05:15 AM - 05:20 AM	51.4	51.4	-	n/a	50.6	-
05:20 AM - 05:25 AM	51.1	51.4	-	n/a	50.5	-
05:25 AM - 05:30 AM	51.2	51.2	-	n/a	50.4	-
05:30 AM - 05:35 AM	51.1	51.1	-	n/a	50.4	-
05:35 AM - 05:40 AM	51.2	51.1	-	37.8	50.5	-12.7
05:40 AM - 05:45 AM	51.5	51.5	-	n/a	50.6	-
05:45 AM - 05:50 AM	57.8	51.6	-	59.6	50.7	8.9
05:50 AM - 05:55 AM	69.0	66.6	-	68.3	62.2	6.1
05:55 AM - 06:00 AM	68.1	66.9	-	64.9	65.2	-0.3
06:00 AM - 07:00 AM	54.3	54.4	n/a	-	51.6	-
07:00 AM - 08:00 AM	52.6	52.2	-	42.0	51.2	-9.2
08:00 AM - 09:00 AM	53.6	52.8	-	45.9	51.0	-5.1
09:00 AM - 10:00 AM	52.3	51.9	-	41.7	50.8	-9.1
10:00 AM - 11:00 AM	54.3	53.5	-	46.6	51.2	-4.6
11:00 AM - 12:00 PM	52.6	52.0	-	43.7	50.9	-7.2
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดได้จากอุปกรณ์การประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2568
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอื่นที่วัดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด ทิศทางตรวจวัด วันที่ 05-06 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-11 วันที่ตรวจวัด 05-06 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilwan Borrak

Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 8304 8555 : FAX +66 0 8304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957030-1

Sample No. 2432594-12
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	55.9	54.0	51.4	-	51.8	-0.4
01:00 PM - 02:00 PM	53.3	54.4	n/a	-	52.1	-
02:00 PM - 03:00 PM	55.9	55.3	-	-	53.4	-6.4
03:00 PM - 04:00 PM	53.2	52.3	45.9	-	50.7	-4.8
04:00 PM - 05:00 PM	53.6	53.2	43.0	-	51.5	-8.5
05:00 PM - 06:00 PM	53.2	52.7	43.6	-	51.5	-7.9
06:00 PM - 07:00 PM	61.9	59.9	57.6	-	58.1	-0.5
07:00 PM - 08:00 PM	53.1	53.5	n/a	-	51.3	-
08:00 PM - 09:00 PM	52.2	51.9	40.4	-	51.2	-10.8
09:00 PM - 10:00 PM	51.8	51.5	40.0	-	50.8	-10.8
10:00 PM - 10:05 PM	51.5	51.3	-	41.0	50.8	-9.8
10:05 PM - 10:10 PM	51.7	51.4	-	42.9	50.8	-7.9
10:10 PM - 10:15 PM	51.7	51.0	-	46.4	50.5	-4.1
10:15 PM - 10:20 PM	51.7	51.2	-	45.1	50.8	-5.7
10:20 PM - 10:25 PM	51.8	51.4	-	44.2	50.8	-6.6
10:25 PM - 10:30 PM	51.5	51.3	-	41.0	50.8	-9.8
10:30 PM - 10:35 PM	53.1	51.2	-	51.6	50.8	0.8
10:35 PM - 10:40 PM	51.5	51.5	-	n/a	50.6	-
10:40 PM - 10:45 PM	51.5	51.1	-	43.9	50.6	-6.7
10:45 PM - 10:50 PM	51.4	51.5	-	n/a	50.7	-
10:50 PM - 10:55 PM	51.6	51.2	-	44.0	50.8	-6.8
10:55 PM - 11:00 PM	51.4	51.0	-	43.8	50.6	-6.8
11:00 PM - 11:05 PM	51.3	50.9	-	43.7	50.6	-6.9
11:05 PM - 11:10 PM	51.6	51.4	-	41.1	50.9	-9.8
11:10 PM - 11:15 PM	51.8	51.1	-	46.5	50.6	-4.1
11:15 PM - 11:20 PM	57.6	51.2	-	59.5	50.6	8.9
11:20 PM - 11:25 PM	52.4	51.2	-	49.2	50.6	-1.4
11:25 PM - 11:30 PM	63.4	60.8	-	62.9	58.6	4.3
11:30 PM - 11:35 PM	53.6	48.8	-	54.9	46.6	8.3
11:35 PM - 11:40 PM	51.7	51.9	-	n/a	51.2	-
11:40 PM - 11:45 PM	52.2	49.1	-	52.3	46.9	5.4
11:45 PM - 11:50 PM	51.4	51.3	-	38.0	50.8	-12.8
11:50 PM - 11:55 PM	51.8	51.3	-	45.2	50.8	-5.6
11:55 PM - 12:00 AM	51.6	51.9	-	n/a	50.8	-
12:00 AM - 12:05 AM	52.7	51.3	-	50.1	50.7	-0.6
12:05 AM - 12:10 AM	51.9	51.4	-	45.3	50.9	-5.6
12:10 AM - 12:15 AM	51.5	52.6	-	n/a	50.7	-
12:15 AM - 12:20 AM	51.4	51.0	-	43.8	50.6	-6.8
12:20 AM - 12:25 AM	51.6	51.5	-	38.2	50.5	-12.3
12:25 AM - 12:30 AM	51.8	51.1	-	46.5	50.5	-4.0

The above results are valid only for the analyzed (tested) sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilwan Borrak

Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 8304 8555 : FAX +66 0 8304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957030-1

Sample No. 2432594-12
Parameter เสียงรบกวน
Location หน้าโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	51.5	51.2	-	42.7	50.6	-7.9
12:35 AM - 12:40 AM	54.0	51.3	-	53.7	50.7	3.0
12:40 AM - 12:45 AM	61.7	60.6	-	58.2	56.8	1.4
12:45 AM - 12:50 AM	55.6	51.1	-	56.7	50.6	6.1
12:50 AM - 12:55 AM	57.1	53.9	-	57.3	50.6	6.7
12:55 AM - 01:00 AM	51.4	55.9	-	n/a	51.2	-
01:00 AM - 01:05 AM	51.3	54.1	-	n/a	51.0	-
01:05 AM - 01:10 AM	51.3	51.6	-	n/a	50.5	-
01:10 AM - 01:15 AM	51.7	50.9	-	47.0	50.3	-3.3
01:15 AM - 01:20 AM	51.5	51.0	-	44.9	50.5	-5.6
01:20 AM - 01:25 AM	51.3	50.9	-	43.7	50.4	-6.7
01:25 AM - 01:30 AM	51.4	51.1	-	42.6	50.6	-8.0
01:30 AM - 01:35 AM	51.3	50.8	-	44.7	50.4	-5.7
01:35 AM - 01:40 AM	51.3	50.8	-	44.7	50.4	-5.7
01:40 AM - 01:45 AM	52.7	50.9	-	51.0	50.5	0.5
01:45 AM - 01:50 AM	55.5	51.0	-	56.6	50.6	6.0
01:50 AM - 01:55 AM	55.0	51.0	-	55.8	50.5	5.3
01:55 AM - 02:00 AM	53.3	52.4	-	49.0	50.5	-1.5
02:00 AM - 02:05 AM	51.6	53.9	-	n/a	52.3	-
02:05 AM - 02:10 AM	51.5	53.3	-	n/a	52.5	-
02:10 AM - 02:15 AM	51.4	51.4	-	n/a	50.5	-
02:15 AM - 02:20 AM	51.5	51.0	-	44.9	50.6	-5.7
02:20 AM - 02:25 AM	51.3	51.0	-	42.5	50.8	-8.1
02:25 AM - 02:30 AM	51.3	50.9	-	43.7	50.5	-6.8
02:30 AM - 02:35 AM	51.3	50.9	-	43.7	50.5	-6.8
02:35 AM - 02:40 AM	51.3	50.9	-	43.7	50.5	-6.8
02:40 AM - 02:45 AM	51.4	50.8	-	45.5	50.4	-4.9
02:45 AM - 02:50 AM	51.3	50.9	-	43.7	50.5	-6.8
02:50 AM - 02:55 AM	51.3	51.1	-	40.8	50.7	-9.9
02:55 AM - 03:00 AM	51.3	51.0	-	42.5	50.6	-8.1
03:00 AM - 03:05 AM	51.3	50.8	-	44.7	50.5	-5.8
03:05 AM - 03:10 AM	60.0	58.8	-	56.8	58.4	-1.6
03:10 AM - 03:15 AM	64.3	62.0	-	63.4	61.6	1.8
03:15 AM - 03:20 AM	59.6	58.8	-	54.9	57.7	-2.8
03:20 AM - 03:25 AM	51.5	58.4	-	n/a	55.2	-
03:25 AM - 03:30 AM	52.1	59.6	-	n/a	57.4	-
03:30 AM - 03:35 AM	51.6	52.5	-	n/a	51.2	-
03:35 AM - 03:40 AM	52.6	51.3	-	49.7	50.8	-1.1
03:40 AM - 03:45 AM	51.1	52.2	-	n/a	50.9	-
03:45 AM - 03:50 AM	51.1	51.0	-	37.7	50.5	-12.8

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957030-1

Sample No. 2432594-12
Parameter เสียงรบกวน
Location หน้าโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.1	51.9	-	n/a	50.6	-
03:55 AM - 04:00 AM	51.0	51.1	-	n/a	50.6	-
04:00 AM - 04:05 AM	51.1	50.8	-	42.3	50.5	-8.2
04:05 AM - 04:10 AM	51.0	50.9	-	37.6	50.5	-12.9
04:10 AM - 04:15 AM	51.2	50.9	-	42.4	50.5	-8.1
04:15 AM - 04:20 AM	51.1	50.9	-	40.6	50.5	-9.9
04:20 AM - 04:25 AM	51.3	50.9	-	43.7	50.5	-6.8
04:25 AM - 04:30 AM	51.0	50.9	-	37.6	50.5	-12.9
04:30 AM - 04:35 AM	51.1	50.8	-	42.3	50.4	-8.1
04:35 AM - 04:40 AM	51.1	50.9	-	40.6	50.4	-9.8
04:40 AM - 04:45 AM	51.1	50.8	-	42.3	50.5	-8.2
04:45 AM - 04:50 AM	51.7	51.0	-	46.4	50.6	-4.2
04:50 AM - 04:55 AM	51.2	50.8	-	43.6	50.4	-6.8
04:55 AM - 05:00 AM	51.2	51.0	-	40.7	50.6	-9.9
05:00 AM - 05:05 AM	55.7	51.5	-	56.6	50.5	6.1
05:05 AM - 05:10 AM	51.0	51.0	-	n/a	50.5	-
05:10 AM - 05:15 AM	51.1	50.9	-	40.6	50.5	-9.9
05:15 AM - 05:20 AM	51.2	54.5	-	n/a	50.4	-
05:20 AM - 05:25 AM	51.5	50.7	-	46.8	50.4	-3.6
05:25 AM - 05:30 AM	51.7	50.9	-	47.0	50.4	-3.4
05:30 AM - 05:35 AM	51.2	50.9	-	42.4	50.5	-8.1
05:35 AM - 05:40 AM	51.4	51.7	-	n/a	50.7	-
05:40 AM - 05:45 AM	52.0	50.8	-	48.8	50.5	-1.7
05:45 AM - 05:50 AM	62.4	61.8	-	56.5	61.4	-4.9
05:50 AM - 05:55 AM	67.9	62.1	-	69.6	61.6	8.0
05:55 AM - 06:00 AM	65.0	62.9	-	63.8	61.8	2.0
06:00 AM - 07:00 AM	54.1	52.9	47.9	-	51.0	-3.1
07:00 AM - 08:00 AM	52.9	52.0	45.6	-	51.0	-5.4
08:00 AM - 09:00 AM	52.0	52.0	n/a	-	50.7	-
09:00 AM - 10:00 AM	57.1	56.9	43.6	-	54.0	-10.4
10:00 AM - 11:00 AM	53.3	51.3	49.0	-	50.3	-1.3
11:00 AM - 12:00 PM	51.9	51.5	41.3	-	50.6	-9.3

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง ค่าระดับมาตรฐานและขีดจำกัดของเสียงที่เกิดจากการประกอบกิจการที่ขึ้นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิจารณาราว 06:07 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-12 วันที่ตรวจวัด 06-07 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีกิจกรรมเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432594-13
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920833

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957031-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	52.5	52.6	n/a	-	50.5	-
01:00 PM - 02:00 PM	53.9	53.5	43.3	-	52.0	-8.7
02:00 PM - 03:00 PM	57.1	55.9	50.9	-	52.2	-1.3
03:00 PM - 04:00 PM	57.4	56.2	51.2	-	54.0	-2.8
04:00 PM - 05:00 PM	52.9	52.3	44.0	-	51.3	-7.3
05:00 PM - 06:00 PM	52.4	51.8	43.5	-	51.0	-7.5
06:00 PM - 07:00 PM	53.0	52.6	42.4	-	51.4	-9.0
07:00 PM - 08:00 PM	60.7	58.2	57.1	-	55.6	1.5
08:00 PM - 09:00 PM	54.9	53.9	48.0	-	52.6	-4.6
09:00 PM - 10:00 PM	52.7	52.0	44.4	-	51.2	-6.8
10:00 PM - 10:05 PM	51.6	51.1	-	45.0	50.6	-5.6
10:05 PM - 10:10 PM	51.6	51.1	-	45.0	50.6	-5.6
10:10 PM - 10:15 PM	51.8	51.5	-	43.0	50.7	-7.7
10:15 PM - 10:20 PM	51.6	51.0	-	45.7	50.4	-4.7
10:20 PM - 10:25 PM	52.1	51.0	-	48.6	50.7	-2.1
10:25 PM - 10:30 PM	51.5	50.9	-	45.6	50.5	-4.9
10:30 PM - 10:35 PM	51.7	50.8	-	47.4	50.5	-3.1
10:35 PM - 10:40 PM	51.4	53.4	-	n/a	50.5	-
10:40 PM - 10:45 PM	51.3	51.5	-	n/a	50.5	-
10:45 PM - 10:50 PM	54.0	51.1	-	53.9	50.6	3.3
10:50 PM - 10:55 PM	51.9	51.0	-	47.6	50.6	-3.0
10:55 PM - 11:00 PM	51.6	51.0	-	45.7	50.6	-4.9
11:00 PM - 11:05 PM	51.4	51.0	-	43.8	50.6	-6.8
11:05 PM - 11:10 PM	51.4	51.0	-	43.8	50.7	-6.9
11:10 PM - 11:15 PM	51.4	51.0	-	43.8	50.7	-6.9
11:15 PM - 11:20 PM	51.7	50.9	-	47.0	50.6	-3.6
11:20 PM - 11:25 PM	51.7	51.4	-	42.9	50.6	-7.7
11:25 PM - 11:30 PM	51.6	51.0	-	45.7	50.7	-5.0
11:30 PM - 11:35 PM	52.1	50.9	-	48.9	50.6	-1.7
11:35 PM - 11:40 PM	51.8	51.0	-	47.1	50.6	-3.5
11:40 PM - 11:45 PM	51.5	51.1	-	43.9	50.6	-6.7
11:45 PM - 11:50 PM	51.5	53.4	-	n/a	50.4	-
11:50 PM - 11:55 PM	51.5	50.7	-	46.8	50.3	-3.5
11:55 PM - 12:00 AM	57.5	50.7	-	59.5	50.4	9.1
12:00 AM - 12:05 AM	51.0	50.9	-	37.6	50.3	-12.7
12:05 AM - 12:10 AM	51.2	51.0	-	40.7	50.4	-9.7
12:10 AM - 12:15 AM	51.3	50.8	-	44.7	50.4	-5.7
12:15 AM - 12:20 AM	52.4	50.7	-	50.5	50.4	0.1
12:20 AM - 12:25 AM	51.0	50.8	-	40.5	50.3	-9.8
12:25 AM - 12:30 AM	51.1	50.8	-	42.3	50.5	-8.2

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432594-13
Parameter : เสียงรบกวน
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920833

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957031-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	51.1	51.0	-	37.7	50.4	-12.7
12:35 AM - 12:40 AM	51.3	50.8	-	44.7	50.4	-5.7
12:40 AM - 12:45 AM	51.3	51.0	-	42.5	50.5	-8.0
12:45 AM - 12:50 AM	51.5	50.8	-	46.2	50.5	-4.3
12:50 AM - 12:55 AM	51.2	51.1	-	37.8	50.5	-12.7
12:55 AM - 01:00 AM	51.2	50.7	-	44.6	50.4	-5.8
01:00 AM - 01:05 AM	51.5	50.8	-	46.2	50.4	-4.2
01:05 AM - 01:10 AM	51.3	50.8	-	44.7	50.4	-5.7
01:10 AM - 01:15 AM	51.4	51.1	-	42.6	50.5	-7.9
01:15 AM - 01:20 AM	51.8	51.0	-	47.1	50.6	-3.5
01:20 AM - 01:25 AM	51.6	57.0	-	n/a	50.7	-
01:25 AM - 01:30 AM	51.6	60.7	-	n/a	59.9	-
01:30 AM - 01:35 AM	56.9	60.2	-	n/a	58.5	-
01:35 AM - 01:40 AM	59.3	56.2	-	59.4	54.2	5.2
01:40 AM - 01:45 AM	62.0	61.6	-	54.4	60.6	-6.2
01:45 AM - 01:50 AM	58.5	52.6	-	60.2	51.2	9.0
01:50 AM - 01:55 AM	55.1	50.9	-	56.0	50.3	5.7
01:55 AM - 02:00 AM	54.9	50.7	-	55.8	50.2	5.6
02:00 AM - 02:05 AM	51.1	50.8	-	42.3	50.4	-8.1
02:05 AM - 02:10 AM	51.0	50.8	-	40.5	50.5	-10.0
02:10 AM - 02:15 AM	51.1	51.1	-	n/a	50.3	-
02:15 AM - 02:20 AM	51.3	50.7	-	45.4	50.3	-4.9
02:20 AM - 02:25 AM	51.1	50.8	-	42.3	50.4	-8.1
02:25 AM - 02:30 AM	51.0	50.8	-	40.5	50.4	-9.9
02:30 AM - 02:35 AM	51.1	50.6	-	44.5	50.2	-5.7
02:35 AM - 02:40 AM	51.2	51.0	-	40.7	50.4	-9.7
02:40 AM - 02:45 AM	50.9	51.1	-	n/a	50.5	-
02:45 AM - 02:50 AM	51.1	51.1	-	n/a	50.4	-
02:50 AM - 02:55 AM	51.0	51.2	-	n/a	50.4	-
02:55 AM - 03:00 AM	51.1	51.2	-	n/a	50.5	-
03:00 AM - 03:05 AM	51.1	51.3	-	n/a	50.7	-
03:05 AM - 03:10 AM	51.1	51.2	-	n/a	50.5	-
03:10 AM - 03:15 AM	51.1	51.3	-	n/a	50.4	-
03:15 AM - 03:20 AM	51.2	51.1	-	37.8	50.4	-12.6
03:20 AM - 03:25 AM	52.1	51.2	-	47.8	50.5	-2.7
03:25 AM - 03:30 AM	51.0	51.3	-	n/a	50.4	-
03:30 AM - 03:35 AM	51.0	51.1	-	n/a	50.5	-
03:35 AM - 03:40 AM	51.1	51.2	-	n/a	50.4	-
03:40 AM - 03:45 AM	51.1	51.2	-	n/a	50.5	-
03:45 AM - 03:50 AM	51.4	51.1	-	42.6	50.4	-7.8

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957031-1

Page 3 of 3

Sample No. 2432594-13
Parameter เสียงรบกวน
Location ชิมรั่วโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	51.0	51.1	-	n/a	50.4	-
03:55 AM - 04:00 AM	51.0	51.1	-	n/a	50.4	-
04:00 AM - 04:05 AM	51.1	51.1	-	n/a	50.4	-
04:05 AM - 04:10 AM	51.1	51.1	-	n/a	50.3	-
04:10 AM - 04:15 AM	51.0	51.2	-	n/a	50.4	-
04:15 AM - 04:20 AM	50.8	51.2	-	n/a	50.5	-
04:20 AM - 04:25 AM	51.1	51.0	-	37.7	50.3	-12.6
04:25 AM - 04:30 AM	51.0	50.8	-	40.5	50.3	-9.8
04:30 AM - 04:35 AM	51.1	50.9	-	40.6	50.3	-9.7
04:35 AM - 04:40 AM	50.9	51.0	-	n/a	50.3	-
04:40 AM - 04:45 AM	51.0	51.0	-	n/a	50.4	-
04:45 AM - 04:50 AM	51.0	51.7	-	n/a	50.4	-
04:50 AM - 04:55 AM	51.0	51.1	-	n/a	50.4	-
04:55 AM - 05:00 AM	51.9	50.9	-	48.0	50.4	-2.4
05:00 AM - 05:05 AM	51.5	50.8	-	46.2	50.3	-4.1
05:05 AM - 05:10 AM	51.2	50.6	-	45.3	50.1	-4.8
05:10 AM - 05:15 AM	51.5	50.6	-	47.2	50.1	-2.9
05:15 AM - 05:20 AM	51.1	50.8	-	42.3	50.2	-7.9
05:20 AM - 05:25 AM	51.4	50.8	-	45.5	50.2	-4.7
05:25 AM - 05:30 AM	51.2	50.9	-	42.4	50.3	-7.9
05:30 AM - 05:35 AM	50.9	50.7	-	40.4	50.3	-9.9
05:35 AM - 05:40 AM	51.7	50.6	-	48.2	50.2	-2.0
05:40 AM - 05:45 AM	51.0	50.7	-	42.2	50.1	-7.9
05:45 AM - 05:50 AM	50.9	50.4	-	44.3	50.0	-5.7
05:50 AM - 05:55 AM	51.1	50.5	-	45.2	50.2	-5.0
05:55 AM - 06:00 AM	50.8	50.7	-	37.4	50.3	-12.9
06:00 AM - 07:00 AM	55.2	54.9	43.4	-	50.2	-6.8
07:00 AM - 08:00 AM	54.9	53.8	48.4	-	52.5	-4.1
08:00 AM - 09:00 AM	52.4	52.1	40.6	-	51.2	-10.6
09:00 AM - 10:00 AM	52.4	51.7	44.1	-	50.7	-6.6
10:00 AM - 11:00 AM	52.2	51.9	40.4	-	50.6	-10.2
11:00 AM - 12:00 PM	54.8	53.9	47.5	-	51.2	-3.7

ค่ามาตรฐาน

Reference Method :
1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดวิธีการวัดระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงรบกวนเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No. 2432591-13) ตรวจวัดวันที่ 07-08 เมษายน 2567
- n/a ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957032-1

Page 1 of 3

Sample No. 2432594-14
Parameter เสียงรบกวน
Location ชิมรั่วโครงการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:00 PM - 01:00 PM	52.1	51.5	43.2	-	50.6	-7.4
01:00 PM - 02:00 PM	52.7	52.1	43.8	-	50.9	-7.1
02:00 PM - 03:00 PM	52.5	52.0	42.9	-	50.8	-7.9
03:00 PM - 04:00 PM	54.8	55.7	n/a	-	53.0	-
04:00 PM - 05:00 PM	53.5	52.7	45.8	-	51.5	-5.7
05:00 PM - 06:00 PM	52.4	52.4	n/a	-	50.8	-
06:00 PM - 07:00 PM	52.6	52.2	42.0	-	51.0	-9.0
07:00 PM - 08:00 PM	51.6	52.1	n/a	-	51.2	-
08:00 PM - 09:00 PM	51.4	51.6	n/a	-	50.8	-
09:00 PM - 10:00 PM	51.4	51.3	35.0	-	50.6	-15.6
10:00 PM - 10:05 PM	51.6	51.4	-	41.1	50.6	-9.5
10:05 PM - 10:10 PM	51.2	51.1	-	37.8	50.5	-12.7
10:10 PM - 10:15 PM	51.7	50.8	-	47.4	50.3	-2.9
10:15 PM - 10:20 PM	51.0	51.2	-	n/a	50.5	-
10:20 PM - 10:25 PM	51.0	50.7	-	42.2	50.3	-8.1
10:25 PM - 10:30 PM	51.2	50.8	-	43.6	50.4	-6.8
10:30 PM - 10:35 PM	51.3	51.3	-	n/a	50.7	-
10:35 PM - 10:40 PM	51.8	51.1	-	46.5	50.6	-4.1
10:40 PM - 10:45 PM	52.1	54.1	-	n/a	52.7	-
10:45 PM - 10:50 PM	54.1	54.3	-	n/a	52.7	-
10:50 PM - 10:55 PM	55.4	57.1	-	n/a	56.2	-
10:55 PM - 11:00 PM	54.6	57.9	-	n/a	56.6	-
11:00 PM - 11:05 PM	53.5	56.9	-	n/a	54.9	-
11:05 PM - 11:10 PM	51.5	54.4	-	n/a	52.6	-
11:10 PM - 11:15 PM	51.3	51.3	-	n/a	50.8	-
11:15 PM - 11:20 PM	51.5	51.1	-	43.9	50.7	-6.8
11:20 PM - 11:25 PM	51.3	51.1	-	40.8	50.6	-9.8
11:25 PM - 11:30 PM	51.3	51.1	-	40.8	50.7	-9.9
11:30 PM - 11:35 PM	51.3	51.0	-	42.5	50.6	-8.1
11:35 PM - 11:40 PM	51.4	51.2	-	40.9	50.8	-9.9
11:40 PM - 11:45 PM	51.4	51.1	-	42.6	50.6	-8.0
11:45 PM - 11:50 PM	52.4	51.3	-	48.9	50.7	-1.8
11:50 PM - 11:55 PM	52.3	52.3	-	n/a	51.9	-
11:55 PM - 12:00 AM	51.7	51.7	-	n/a	51.1	-
12:00 AM - 12:05 AM	51.5	51.2	-	42.7	50.8	-8.1
12:05 AM - 12:10 AM	51.5	51.3	-	41.0	50.8	-9.8
12:10 AM - 12:15 AM	51.4	51.0	-	43.8	50.7	-6.9
12:15 AM - 12:20 AM	51.7	51.1	-	45.8	50.7	-4.9
12:20 AM - 12:25 AM	51.6	51.3	-	42.8	50.8	-8.0
12:25 AM - 12:30 AM	51.4	51.2	-	40.9	50.7	-9.8

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-14
Parameter เสียงรบกวน
Location ชิมจิโครการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957032-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:30 AM - 12:35 AM	51.4	50.9	-	44.8	50.6	-5.8
12:35 AM - 12:40 AM	51.3	51.0	-	42.5	50.7	-8.2
12:40 AM - 12:45 AM	51.4	51.1	-	42.6	50.8	-8.2
12:45 AM - 12:50 AM	51.5	51.4	-	38.1	50.8	-12.7
12:50 AM - 12:55 AM	51.2	51.0	-	40.7	50.6	-9.9
12:55 AM - 01:00 AM	51.2	50.9	-	42.4	50.5	-8.1
01:00 AM - 01:05 AM	51.3	51.0	-	42.5	50.5	-8.0
01:05 AM - 01:10 AM	51.2	50.9	-	42.4	50.6	-8.2
01:10 AM - 01:15 AM	51.3	50.8	-	44.7	50.5	-5.8
01:15 AM - 01:20 AM	51.2	50.9	-	42.4	50.5	-8.1
01:20 AM - 01:25 AM	51.3	51.0	-	42.5	50.6	-8.1
01:25 AM - 01:30 AM	51.5	51.0	-	44.9	50.7	-5.8
01:30 AM - 01:35 AM	51.6	50.9	-	46.3	50.6	-4.3
01:35 AM - 01:40 AM	51.5	51.0	-	44.9	50.5	-5.6
01:40 AM - 01:45 AM	51.5	51.1	-	43.9	50.6	-6.7
01:45 AM - 01:50 AM	51.3	51.0	-	42.5	50.5	-8.0
01:50 AM - 01:55 AM	51.2	51.1	-	37.8	50.7	-12.9
01:55 AM - 02:00 AM	51.9	50.9	-	48.0	50.6	-2.6
02:00 AM - 02:05 AM	51.3	51.1	-	40.8	50.6	-9.8
02:05 AM - 02:10 AM	51.4	51.0	-	43.8	50.7	-6.9
02:10 AM - 02:15 AM	51.3	51.1	-	40.8	50.7	-9.9
02:15 AM - 02:20 AM	51.1	50.9	-	40.6	50.6	-10.0
02:20 AM - 02:25 AM	52.1	51.0	-	48.6	50.6	-2.0
02:25 AM - 02:30 AM	52.2	52.8	-	n/a	52.4	-
02:30 AM - 02:35 AM	51.5	51.4	-	38.1	50.6	-12.5
02:35 AM - 02:40 AM	51.2	50.9	-	42.4	50.5	-8.1
02:40 AM - 02:45 AM	51.2	50.9	-	42.4	50.6	-8.2
02:45 AM - 02:50 AM	51.5	51.0	-	44.9	50.6	-5.7
02:50 AM - 02:55 AM	51.1	51.0	-	37.7	50.6	-12.9
02:55 AM - 03:00 AM	51.4	51.2	-	40.9	50.5	-9.6
03:00 AM - 03:05 AM	51.2	51.0	-	40.7	50.5	-9.8
03:05 AM - 03:10 AM	51.1	50.9	-	40.6	50.6	-10.0
03:10 AM - 03:15 AM	51.0	50.8	-	40.5	50.5	-10.0
03:15 AM - 03:20 AM	51.0	50.8	-	40.5	50.4	-9.9
03:20 AM - 03:25 AM	52.3	50.7	-	50.2	50.4	-0.2
03:25 AM - 03:30 AM	50.9	51.8	-	n/a	50.4	-
03:30 AM - 03:35 AM	54.7	53.1	-	52.6	50.4	2.2
03:35 AM - 03:40 AM	53.3	51.6	-	51.4	50.4	1.0
03:40 AM - 03:45 AM	59.1	58.7	-	51.5	55.5	-4.0
03:45 AM - 03:50 AM	58.6	54.1	-	59.7	52.9	6.8

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-14
Parameter เสียงรบกวน
Location ชิมจิโครการด้านทิศตะวันออก (GPS 47P 0735702, 1409730)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920833

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957032-1

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:50 AM - 03:55 AM	57.9	54.2	-	58.5	52.7	5.8
03:55 AM - 04:00 AM	53.5	53.0	-	46.9	52.1	-5.2
04:00 AM - 04:05 AM	51.4	50.9	-	44.8	50.3	-5.5
04:05 AM - 04:10 AM	51.1	50.7	-	43.5	50.4	-6.9
04:10 AM - 04:15 AM	53.7	50.7	-	53.7	50.4	3.3
04:15 AM - 04:20 AM	56.5	58.3	-	n/a	50.5	-
04:20 AM - 04:25 AM	58.8	56.6	-	57.8	56.3	1.5
04:25 AM - 04:30 AM	59.6	60.6	-	n/a	55.9	-
04:30 AM - 04:35 AM	56.5	57.1	-	n/a	55.5	-
04:35 AM - 04:40 AM	56.6	55.8	-	51.9	55.4	-3.5
04:40 AM - 04:45 AM	56.6	55.8	-	51.9	55.4	-3.5
04:45 AM - 04:50 AM	56.5	55.6	-	52.2	55.3	-3.1
04:50 AM - 04:55 AM	57.6	55.6	-	56.3	55.2	1.1
04:55 AM - 05:00 AM	55.1	58.1	-	n/a	55.5	-
05:00 AM - 05:05 AM	57.0	53.4	-	57.5	51.0	6.5
05:05 AM - 05:10 AM	53.9	51.1	-	53.7	50.9	2.8
05:10 AM - 05:15 AM	50.8	51.2	-	n/a	50.9	-
05:15 AM - 05:20 AM	50.9	51.3	-	n/a	51.0	-
05:20 AM - 05:25 AM	50.9	51.3	-	n/a	51.0	-
05:25 AM - 05:30 AM	51.1	51.4	-	n/a	51.0	-
05:30 AM - 05:35 AM	50.9	52.0	-	n/a	51.0	-
05:35 AM - 05:40 AM	54.4	53.1	-	51.5	52.2	-0.7
05:40 AM - 05:45 AM	56.7	57.6	-	n/a	52.2	-
05:45 AM - 05:50 AM	58.1	59.4	-	n/a	52.4	-
05:50 AM - 05:55 AM	57.9	59.2	-	n/a	52.3	-
05:55 AM - 06:00 AM	58.9	51.8	-	61.0	51.4	9.6
06:00 AM - 07:00 AM	55.7	55.6	39.3	-	52.6	-13.3
07:00 AM - 08:00 AM	58.8	57.3	53.5	-	54.7	-1.2
08:00 AM - 09:00 AM	59.8	57.6	55.8	-	54.7	1.1
09:00 AM - 10:00 AM	60.0	58.5	54.7	-	55.6	-0.9
10:00 AM - 11:00 AM	56.1	56.1	n/a	-	53.8	-
11:00 AM - 12:00 PM	55.3	53.6	50.4	-	52.5	-2.1

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง การวัดระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พารามิเตอร์ วันที่ 08-09 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432591-14 วันที่ตรวจวัด 08-09 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-12
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957033-1

Sample No. 2432594-15
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	51.6	50.9	43.3	-	47.6	-4.3
12:00 PM - 01:00 PM	52.0	51.0	45.1	-	47.8	-2.7
01:00 PM - 02:00 PM	53.2	52.9	41.4	-	46.6	-5.2
02:00 PM - 03:00 PM	51.1	50.2	43.8	-	47.2	-3.4
03:00 PM - 04:00 PM	50.4	49.2	44.2	-	47.7	-3.5
04:00 PM - 05:00 PM	51.3	51.1	37.8	-	47.8	-10.0
05:00 PM - 06:00 PM	55.7	54.5	49.5	-	49.2	0.3
06:00 PM - 07:00 PM	54.1	53.8	42.3	-	48.8	-6.5
07:00 PM - 08:00 PM	56.9	60.0	n/a	-	51.4	-
08:00 PM - 09:00 PM	54.5	53.9	45.6	-	51.8	-6.2
09:00 PM - 10:00 PM	55.1	53.8	49.2	-	51.9	-2.7
10:00 PM - 10:05 PM	53.0	52.4	-	47.1	51.4	-4.3
10:05 PM - 10:10 PM	52.9	52.3	-	47.0	51.1	-4.1
10:10 PM - 10:15 PM	52.9	52.5	-	45.3	51.1	-5.8
10:15 PM - 10:20 PM	52.8	52.2	-	46.9	50.7	-3.8
10:20 PM - 10:25 PM	52.6	52.0	-	46.7	50.3	-3.6
10:25 PM - 10:30 PM	52.5	51.4	-	49.0	50.3	-1.3
10:30 PM - 10:35 PM	52.5	51.8	-	47.2	50.8	-3.6
10:35 PM - 10:40 PM	53.1	51.9	-	49.9	50.2	-0.3
10:40 PM - 10:45 PM	52.4	51.4	-	48.5	50.1	-1.6
10:45 PM - 10:50 PM	52.6	51.1	-	50.3	49.8	0.5
10:50 PM - 10:55 PM	53.3	52.3	-	49.4	50.3	-0.9
10:55 PM - 11:00 PM	53.2	52.5	-	47.9	50.3	-2.4
11:00 PM - 11:05 PM	52.4	51.4	-	48.5	50.1	-1.6
11:05 PM - 11:10 PM	52.7	51.1	-	50.6	49.8	0.8
11:10 PM - 11:15 PM	51.9	50.7	-	48.7	49.3	-0.6
11:15 PM - 11:20 PM	52.1	50.8	-	49.2	49.5	-0.3
11:20 PM - 11:25 PM	52.0	51.6	-	44.4	50.4	-6.0
11:25 PM - 11:30 PM	52.4	51.2	-	49.2	49.8	-0.6
11:30 PM - 11:35 PM	52.2	49.9	-	51.3	49.2	2.1
11:35 PM - 11:40 PM	52.3	49.9	-	51.6	49.1	2.5
11:40 PM - 11:45 PM	52.3	50.1	-	51.3	49.4	1.9
11:45 PM - 11:50 PM	52.5	50.5	-	51.2	49.7	1.5
11:50 PM - 11:55 PM	52.9	50.8	-	51.7	50.0	1.7
11:55 PM - 12:00 AM	52.6	51.4	-	49.4	50.3	-0.9
12:00 AM - 12:05 AM	52.5	51.1	-	49.9	49.9	0.0
12:05 AM - 12:10 AM	52.3	51.4	-	48.0	50.2	-2.2
12:10 AM - 12:15 AM	52.1	51.1	-	48.2	49.9	-1.7
12:15 AM - 12:20 AM	51.1	50.8	-	42.3	49.5	-7.2
12:20 AM - 12:25 AM	53.3	50.7	-	52.8	49.1	3.7

Approved by

Wilawan Borirak
Manager

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-12
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957033-1

Sample No. 2432594-15
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.0	51.1	-	n/a	49.6	-
12:30 AM - 12:35 AM	52.3	51.4	-	48.0	49.9	-1.9
12:35 AM - 12:40 AM	52.5	51.7	-	47.8	50.3	-2.5
12:40 AM - 12:45 AM	52.8	51.4	-	50.2	50.1	0.1
12:45 AM - 12:50 AM	57.0	57.8	-	n/a	50.2	-
12:50 AM - 12:55 AM	53.4	51.3	-	52.2	50.0	2.2
12:55 AM - 01:00 AM	52.1	51.3	-	47.4	50.0	-2.6
01:00 AM - 01:05 AM	52.0	50.6	-	49.4	49.6	-0.2
01:05 AM - 01:10 AM	52.0	50.9	-	48.5	49.6	-1.1
01:10 AM - 01:15 AM	51.8	50.7	-	48.3	49.4	-1.1
01:15 AM - 01:20 AM	51.8	50.1	-	49.9	48.9	1.0
01:20 AM - 01:25 AM	50.8	50.7	-	37.4	49.1	-11.7
01:25 AM - 01:30 AM	50.7	51.1	-	n/a	49.6	-
01:30 AM - 01:35 AM	51.2	51.4	-	n/a	49.9	-
01:35 AM - 01:40 AM	51.9	51.7	-	41.4	50.3	-8.9
01:40 AM - 01:45 AM	51.5	51.1	-	43.9	49.8	-5.9
01:45 AM - 01:50 AM	51.4	50.9	-	44.8	49.5	-4.7
01:50 AM - 01:55 AM	51.2	50.8	-	43.6	49.6	-6.0
01:55 AM - 02:00 AM	51.1	50.5	-	45.2	49.2	-4.0
02:00 AM - 02:05 AM	51.1	50.0	-	47.6	49.2	-1.6
02:05 AM - 02:10 AM	51.1	50.2	-	46.8	49.3	-2.5
02:10 AM - 02:15 AM	51.0	50.4	-	45.1	49.2	-4.1
02:15 AM - 02:20 AM	51.2	50.8	-	43.8	49.4	-5.8
02:20 AM - 02:25 AM	50.5	50.5	-	n/a	49.3	-
02:25 AM - 02:30 AM	51.4	50.2	-	48.2	49.3	-1.1
02:30 AM - 02:35 AM	50.3	50.5	-	n/a	49.2	-
02:35 AM - 02:40 AM	49.9	50.6	-	n/a	49.4	-
02:40 AM - 02:45 AM	49.9	50.6	-	n/a	49.5	-
02:45 AM - 02:50 AM	49.9	50.3	-	n/a	49.1	-
02:50 AM - 02:55 AM	49.9	49.5	-	42.3	48.2	-5.9
02:55 AM - 03:00 AM	51.1	50.3	-	46.4	48.7	-2.3
03:00 AM - 03:05 AM	67.7	66.1	-	65.6	57.4	8.2
03:05 AM - 03:10 AM	60.9	58.1	-	60.7	51.9	8.8
03:10 AM - 03:15 AM	51.6	53.3	-	n/a	49.0	-
03:15 AM - 03:20 AM	51.6	54.6	-	n/a	49.0	-
03:20 AM - 03:25 AM	50.1	49.9	-	39.6	48.6	-9.0
03:25 AM - 03:30 AM	49.9	49.8	-	36.5	48.7	-12.2
03:30 AM - 03:35 AM	49.5	49.3	-	39.0	48.2	-9.2
03:35 AM - 03:40 AM	49.7	49.9	-	n/a	48.5	-
03:40 AM - 03:45 AM	49.7	49.7	-	n/a	48.4	-

Approved by

Wilawan Borirak
Manager

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdeang Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdeang Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957033-1

Sample No. 2432594-15
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Page 3 of 3

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
03:45 AM - 03:50 AM	49.7	49.9	-	n/a	48.5
03:50 AM - 03:55 AM	49.4	49.3	-	36.0	48.2
03:55 AM - 04:00 AM	49.5	48.8	-	44.2	47.8
04:00 AM - 04:05 AM	49.2	49.1	-	35.8	48.0
04:05 AM - 04:10 AM	49.4	49.5	-	n/a	48.2
04:10 AM - 04:15 AM	49.8	50.3	-	n/a	48.7
04:15 AM - 04:20 AM	50.0	49.9	-	36.6	48.3
04:20 AM - 04:25 AM	49.5	49.4	-	36.1	48.2
04:25 AM - 04:30 AM	51.0	53.8	-	n/a	48.4
04:30 AM - 04:35 AM	50.6	49.5	-	47.1	48.3
04:35 AM - 04:40 AM	49.5	49.4	-	36.1	48.5
04:40 AM - 04:45 AM	49.8	50.0	-	n/a	48.8
04:45 AM - 04:50 AM	49.9	50.0	-	n/a	48.6
04:50 AM - 04:55 AM	50.5	50.5	-	n/a	48.8
04:55 AM - 05:00 AM	50.2	50.3	-	n/a	49.0
05:00 AM - 05:05 AM	49.9	50.2	-	n/a	48.9
05:05 AM - 05:10 AM	50.1	50.7	-	n/a	49.2
05:10 AM - 05:15 AM	51.9	53.8	-	n/a	49.5
05:15 AM - 05:20 AM	50.2	50.5	-	n/a	49.1
05:20 AM - 05:25 AM	50.3	50.8	-	n/a	49.0
05:25 AM - 05:30 AM	49.9	50.8	-	n/a	49.2
05:30 AM - 05:35 AM	50.3	51.1	-	n/a	49.6
05:35 AM - 05:40 AM	50.4	50.9	-	n/a	49.5
05:40 AM - 05:45 AM	49.8	50.6	-	n/a	49.0
05:45 AM - 05:50 AM	50.8	50.5	-	42.0	49.1
05:50 AM - 05:55 AM	50.4	50.3	-	37.0	49.1
05:55 AM - 06:00 AM	50.6	50.7	-	n/a	49.4
06:00 AM - 07:00 AM	52.2	52.0	38.7	-	50.1
07:00 AM - 08:00 AM	56.1	54.6	50.8	-	49.9
08:00 AM - 09:00 AM	53.9	53.2	45.6	-	48.6
09:00 AM - 10:00 AM	52.5	52.0	42.9	-	48.1
10:00 AM - 11:00 AM	51.9	51.3	43.0	-	47.8
ค่ามาตรฐาน					≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

หมายเหตุ :
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 02-03 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432591-15 วันที่ตรวจวัด 02-03 เมษายน 2567)
3. n/a : ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phrakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957034-1

Sample No. 2432594-16
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Page 1 of 3

ระดับเสียง (dB(A))					
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		ค่าระดับการรบกวน
			กลางวัน	กลางคืน	
11:00 AM - 12:00 PM	54.4	56.8	n/a	-	50.1
12:00 PM - 01:00 PM	54.6	54.8	n/a	-	50.3
01:00 PM - 02:00 PM	53.1	52.6	43.5	-	50.4
02:00 PM - 03:00 PM	53.5	52.0	48.2	-	50.1
03:00 PM - 04:00 PM	58.1	61.6	n/a	-	59.4
04:00 PM - 05:00 PM	58.7	56.6	54.5	-	53.4
05:00 PM - 06:00 PM	54.2	56.3	n/a	-	48.6
06:00 PM - 07:00 PM	57.3	60.4	n/a	-	55.5
07:00 PM - 08:00 PM	54.6	52.1	51.0	-	50.6
08:00 PM - 09:00 PM	56.5	52.4	54.4	-	50.7
09:00 PM - 10:00 PM	55.3	58.3	n/a	-	52.4
10:00 PM - 10:05 PM	54.7	49.6	-	56.1	48.9
10:05 PM - 10:10 PM	54.8	49.4	-	56.3	48.7
10:10 PM - 10:15 PM	53.9	49.8	-	54.8	49.0
10:15 PM - 10:20 PM	54.7	50.3	-	55.7	49.5
10:20 PM - 10:25 PM	54.9	51.9	-	54.9	49.8
10:25 PM - 10:30 PM	54.6	51.1	-	55.0	50.3
10:30 PM - 10:35 PM	54.0	51.4	-	53.5	50.1
10:35 PM - 10:40 PM	54.2	50.4	-	54.9	49.8
10:40 PM - 10:45 PM	54.8	50.5	-	55.8	49.8
10:45 PM - 10:50 PM	55.0	50.2	-	56.3	49.6
10:50 PM - 10:55 PM	54.5	50.5	-	55.3	49.9
10:55 PM - 11:00 PM	54.5	50.4	-	55.4	49.7
11:00 PM - 11:05 PM	54.2	50.0	-	55.1	49.3
11:05 PM - 11:10 PM	54.5	50.2	-	55.5	49.3
11:10 PM - 11:15 PM	54.6	52.3	-	53.7	49.7
11:15 PM - 11:20 PM	54.1	50.3	-	54.8	49.4
11:20 PM - 11:25 PM	53.8	50.5	-	54.1	49.6
11:25 PM - 11:30 PM	54.4	50.2	-	55.3	49.5
11:30 PM - 11:35 PM	53.9	49.8	-	54.8	48.9
11:35 PM - 11:40 PM	53.1	50.6	-	52.5	49.6
11:40 PM - 11:45 PM	53.8	50.4	-	54.1	49.4
11:45 PM - 11:50 PM	53.1	56.2	-	n/a	49.9
11:50 PM - 11:55 PM	53.1	68.9	-	n/a	57.2
11:55 PM - 12:00 AM	52.8	70.0	-	n/a	61.7
12:00 AM - 12:05 AM	52.5	61.1	-	n/a	50.2
12:05 AM - 12:10 AM	54.4	53.5	-	50.1	49.4
12:10 AM - 12:15 AM	52.3	52.8	-	n/a	49.1
12:15 AM - 12:20 AM	50.0	49.7	-	41.2	48.9
12:20 AM - 12:25 AM	54.0	50.1	-	54.7	49.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Klu A. Phrakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957034-1

Sample No. 2432594-16
Parameter เสียงรบกวน
Location รั้วรั้วโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	54.7	50.1	-	55.9	49.1	6.8
12:30 AM - 12:35 AM	50.4	50.5	-	n/a	49.3	-
12:35 AM - 12:40 AM	50.3	50.8	-	n/a	49.4	-
12:40 AM - 12:45 AM	50.1	50.3	-	n/a	49.2	-
12:45 AM - 12:50 AM	50.7	50.2	-	44.1	49.0	-4.9
12:50 AM - 12:55 AM	50.3	49.3	-	46.4	48.4	-2.0
12:55 AM - 01:00 AM	50.4	49.2	-	47.2	48.4	-1.2
01:00 AM - 01:05 AM	50.6	49.4	-	47.4	48.3	-0.9
01:05 AM - 01:10 AM	50.1	49.5	-	44.2	48.5	-4.3
01:10 AM - 01:15 AM	50.2	49.7	-	43.6	48.7	-5.1
01:15 AM - 01:20 AM	50.1	50.2	-	n/a	49.2	-
01:20 AM - 01:25 AM	50.1	49.8	-	41.3	48.8	-7.5
01:25 AM - 01:30 AM	50.4	50.0	-	42.8	48.8	-6.0
01:30 AM - 01:35 AM	51.2	49.6	-	49.1	48.5	0.6
01:35 AM - 01:40 AM	50.4	49.6	-	45.7	48.5	-2.8
01:40 AM - 01:45 AM	50.5	49.5	-	46.6	48.5	-1.9
01:45 AM - 01:50 AM	50.3	49.6	-	45.0	48.8	-3.8
01:50 AM - 01:55 AM	50.1	49.6	-	43.5	48.6	-5.1
01:55 AM - 02:00 AM	50.0	49.8	-	39.5	48.8	-9.3
02:00 AM - 02:05 AM	50.1	49.7	-	42.5	48.8	-6.3
02:05 AM - 02:10 AM	50.2	49.7	-	43.6	48.8	-5.2
02:10 AM - 02:15 AM	50.4	49.8	-	44.5	49.0	-4.5
02:15 AM - 02:20 AM	50.5	50.1	-	42.9	49.1	-6.2
02:20 AM - 02:25 AM	50.4	50.3	-	37.0	49.3	-12.3
02:25 AM - 02:30 AM	50.4	50.0	-	42.8	48.9	-6.1
02:30 AM - 02:35 AM	50.3	49.9	-	42.7	48.9	-6.2
02:35 AM - 02:40 AM	50.6	49.9	-	45.3	49.0	-3.7
02:40 AM - 02:45 AM	50.3	50.2	-	36.9	49.1	-12.2
02:45 AM - 02:50 AM	50.6	49.8	-	45.9	48.9	-3.0
02:50 AM - 02:55 AM	50.7	49.8	-	46.4	48.9	-2.5
02:55 AM - 03:00 AM	51.6	49.6	-	50.3	48.8	1.5
03:00 AM - 03:05 AM	50.7	49.5	-	47.5	48.6	-1.1
03:05 AM - 03:10 AM	50.4	49.5	-	46.1	48.6	-2.5
03:10 AM - 03:15 AM	50.7	49.8	-	46.4	48.8	-2.4
03:15 AM - 03:20 AM	50.2	49.8	-	42.6	48.9	-6.3
03:20 AM - 03:25 AM	50.2	49.8	-	42.6	48.9	-6.3
03:25 AM - 03:30 AM	50.4	49.9	-	43.8	48.7	-4.9
03:30 AM - 03:35 AM	50.5	50.1	-	42.9	48.9	-6.0
03:35 AM - 03:40 AM	50.7	49.9	-	46.0	48.8	-2.8
03:40 AM - 03:45 AM	50.4	50.4	-	n/a	48.9	-

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957034-1

Sample No. 2432594-16
Parameter เสียงรบกวน
Location รั้วรั้วโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.8	49.8	-	46.9	48.6	-1.7
03:50 AM - 03:55 AM	50.5	49.6	-	46.2	48.5	-2.3
03:55 AM - 04:00 AM	51.0	49.7	-	48.1	48.5	-0.4
04:00 AM - 04:05 AM	50.6	50.0	-	44.7	48.6	-3.9
04:05 AM - 04:10 AM	50.2	49.5	-	44.9	48.5	-3.6
04:10 AM - 04:15 AM	50.4	49.7	-	45.1	48.6	-3.5
04:15 AM - 04:20 AM	50.3	49.9	-	42.7	48.6	-5.9
04:20 AM - 04:25 AM	50.5	50.0	-	43.9	48.7	-4.8
04:25 AM - 04:30 AM	50.8	50.3	-	44.2	48.9	-4.7
04:30 AM - 04:35 AM	50.4	49.9	-	43.8	48.6	-4.8
04:35 AM - 04:40 AM	50.2	49.7	-	43.6	48.5	-4.9
04:40 AM - 04:45 AM	50.6	49.9	-	45.3	48.7	-3.4
04:45 AM - 04:50 AM	50.9	50.1	-	46.2	48.8	-2.6
04:50 AM - 04:55 AM	50.8	50.7	-	37.4	49.3	-11.9
04:55 AM - 05:00 AM	50.2	50.5	-	n/a	49.2	-
05:00 AM - 05:05 AM	50.6	50.6	-	n/a	49.2	-
05:05 AM - 05:10 AM	50.4	51.2	-	n/a	50.0	-
05:10 AM - 05:15 AM	50.3	51.3	-	n/a	50.1	-
05:15 AM - 05:20 AM	50.2	51.6	-	n/a	50.3	-
05:20 AM - 05:25 AM	50.7	58.2	-	n/a	38.9	-
05:25 AM - 05:30 AM	50.9	58.5	-	n/a	52.4	-
05:30 AM - 05:35 AM	51.2	50.7	-	44.6	49.3	-4.7
05:35 AM - 05:40 AM	58.1	52.8	-	59.6	51.6	8.0
05:40 AM - 05:45 AM	59.5	52.8	-	61.5	51.7	9.8
05:45 AM - 05:50 AM	55.1	52.9	-	54.1	51.6	2.5
05:50 AM - 05:55 AM	57.6	53.4	-	58.5	51.7	6.8
05:55 AM - 06:00 AM	51.4	54.3	-	n/a	51.5	-
06:00 AM - 07:00 AM	53.3	56.5	n/a	-	50.4	-
07:00 AM - 08:00 AM	52.7	52.3	42.1	-	48.3	-6.2
08:00 AM - 09:00 AM	52.6	52.0	43.7	-	47.8	-4.1
09:00 AM - 10:00 AM	51.3	50.9	40.7	-	48.0	-7.3
10:00 AM - 11:00 AM	54.1	52.5	49.0	-	48.0	1.0

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง มาตรการระดับเสียงของการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงของการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงที่เกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พบการตรวจวัด วันที่ 03-04 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No. 2432591-16 วันที่ตรวจวัด 03-04 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/checked sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957035-1

Page 1 of 3

Sample No. 2432594-17
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	52.3	51.1	46.1	—	47.4	-1.3
12:00 PM - 01:00 PM	54.8	55.3	n/a	—	50.0	—
01:00 PM - 02:00 PM	55.0	53.9	48.5	—	50.4	-1.9
02:00 PM - 03:00 PM	51.2	50.2	44.3	—	47.8	-3.5
03:00 PM - 04:00 PM	52.3	51.3	45.4	—	48.0	-2.6
04:00 PM - 05:00 PM	52.3	51.2	45.8	—	47.8	-2.0
05:00 PM - 06:00 PM	57.0	56.9	40.6	—	52.0	-11.4
06:00 PM - 07:00 PM	60.4	60.1	48.6	—	53.6	-5.0
07:00 PM - 08:00 PM	60.1	59.4	51.8	—	56.4	-4.6
08:00 PM - 09:00 PM	62.0	59.7	58.1	—	57.8	0.3
09:00 PM - 10:00 PM	62.9	61.7	56.7	—	56.1	0.6
10:00 PM - 10:05 PM	53.2	49.8	—	53.5	49.1	4.4
10:05 PM - 10:10 PM	53.6	49.7	—	54.3	49.0	5.3
10:10 PM - 10:15 PM	53.3	50.1	—	53.5	49.3	4.2
10:15 PM - 10:20 PM	53.4	50.5	—	53.3	49.3	4.0
10:20 PM - 10:25 PM	53.0	51.3	—	51.1	49.4	1.7
10:25 PM - 10:30 PM	50.8	51.8	—	n/a	49.8	—
10:30 PM - 10:35 PM	52.0	51.1	—	47.7	43.3	4.4
10:35 PM - 10:40 PM	51.7	50.1	—	49.6	49.1	0.5
10:40 PM - 10:45 PM	54.3	54.0	—	45.5	53.2	-7.7
10:45 PM - 10:50 PM	58.6	57.1	—	56.3	53.3	3.0
10:50 PM - 10:55 PM	57.6	58.0	—	n/a	53.9	—
10:55 PM - 11:00 PM	66.0	66.7	—	n/a	57.7	—
11:00 PM - 11:05 PM	51.8	50.8	—	47.9	49.3	-1.4
11:05 PM - 11:10 PM	54.4	50.1	—	55.4	49.1	6.3
11:10 PM - 11:15 PM	53.7	50.1	—	54.2	49.1	5.1
11:15 PM - 11:20 PM	51.2	50.2	—	47.3	49.2	-1.9
11:20 PM - 11:25 PM	51.5	50.6	—	47.2	49.1	-1.9
11:25 PM - 11:30 PM	51.8	50.3	—	49.5	48.8	0.7
11:30 PM - 11:35 PM	51.9	51.6	—	43.1	48.8	-5.7
11:35 PM - 11:40 PM	51.6	51.4	—	41.1	49.0	-7.9
11:40 PM - 11:45 PM	50.6	49.8	—	45.9	48.6	-2.7
11:45 PM - 11:50 PM	51.1	51.5	—	n/a	48.6	—
11:50 PM - 11:55 PM	51.2	50.9	—	42.4	48.5	-6.1
11:55 PM - 12:00 AM	51.0	49.9	—	47.5	48.9	-1.4
12:00 AM - 12:05 AM	51.1	50.0	—	47.6	48.6	-1.0
12:05 AM - 12:10 AM	51.0	49.0	—	49.7	48.3	1.4
12:10 AM - 12:15 AM	50.8	50.3	—	44.2	48.8	-4.6
12:15 AM - 12:20 AM	50.6	51.6	—	n/a	48.8	—
12:20 AM - 12:25 AM	56.3	51.4	—	57.6	49.0	8.6

Approved by

WibB.
Witwan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957035-1

Page 2 of 3

Sample No. 2432594-17
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	68.8	65.5	—	69.1	63.6	5.5
12:30 AM - 12:35 AM	63.3	63.2	—	49.9	62.1	-12.2
12:35 AM - 12:40 AM	68.6	62.9	—	70.2	61.9	8.3
12:40 AM - 12:45 AM	61.6	64.0	—	n/a	62.4	—
12:45 AM - 12:50 AM	52.2	51.3	—	47.9	50.2	-2.3
12:50 AM - 12:55 AM	52.3	51.0	—	49.4	50.1	-0.7
12:55 AM - 01:00 AM	52.1	51.2	—	47.8	50.4	-2.6
01:00 AM - 01:05 AM	52.0	51.1	—	47.7	50.4	-2.7
01:05 AM - 01:10 AM	52.3	51.0	—	49.4	50.3	-0.9
01:10 AM - 01:15 AM	52.3	50.4	—	50.8	49.0	1.8
01:15 AM - 01:20 AM	52.0	50.9	—	48.5	49.3	-0.8
01:20 AM - 01:25 AM	51.4	50.8	—	45.5	50.1	-4.6
01:25 AM - 01:30 AM	51.5	50.9	—	45.6	50.0	-4.4
01:30 AM - 01:35 AM	51.4	49.8	—	49.3	49.1	0.2
01:35 AM - 01:40 AM	51.5	49.9	—	49.4	49.0	0.4
01:40 AM - 01:45 AM	51.6	50.2	—	49.0	49.1	-0.1
01:45 AM - 01:50 AM	51.8	50.2	—	49.7	49.3	0.4
01:50 AM - 01:55 AM	51.6	50.1	—	49.3	49.4	-0.1
01:55 AM - 02:00 AM	51.7	50.2	—	49.4	49.4	0.0
02:00 AM - 02:05 AM	51.6	50.4	—	48.4	49.5	-1.1
02:05 AM - 02:10 AM	51.4	51.0	—	43.8	49.6	-5.8
02:10 AM - 02:15 AM	51.2	50.4	—	46.5	49.5	-3.0
02:15 AM - 02:20 AM	51.7	50.4	—	48.8	49.3	-0.5
02:20 AM - 02:25 AM	51.3	50.0	—	48.4	48.9	-0.5
02:25 AM - 02:30 AM	50.7	49.7	—	46.8	48.8	-2.0
02:30 AM - 02:35 AM	50.3	50.1	—	39.8	48.7	-8.9
02:35 AM - 02:40 AM	50.3	49.9	—	42.7	48.9	-6.2
02:40 AM - 02:45 AM	50.2	49.8	—	42.6	48.7	-6.1
02:45 AM - 02:50 AM	50.4	49.7	—	45.1	48.5	-3.4
02:50 AM - 02:55 AM	50.1	49.5	—	44.2	48.4	-4.2
02:55 AM - 03:00 AM	50.2	49.7	—	43.6	48.7	-5.1
03:00 AM - 03:05 AM	50.3	49.4	—	46.0	48.3	-2.3
03:05 AM - 03:10 AM	50.0	49.5	—	43.4	48.6	-5.2
03:10 AM - 03:15 AM	49.9	49.9	—	n/a	48.9	—
03:15 AM - 03:20 AM	49.8	49.8	—	n/a	48.7	—
03:20 AM - 03:25 AM	49.8	48.3	—	47.5	44.0	3.5
03:25 AM - 03:30 AM	49.7	49.1	—	43.8	48.1	-4.3
03:30 AM - 03:35 AM	49.5	48.7	—	44.8	47.6	-2.8
03:35 AM - 03:40 AM	62.2	60.6	—	60.1	59.9	0.2
03:40 AM - 03:45 AM	49.5	48.9	—	43.6	48.0	-4.4

Approved by

WibB.
Witwan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957035-1

Page 3 of 3

Sample No. 2432594-17
Parameter เสียงรบกวน
Location รั้วโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.0	49.1	-	45.7	48.3	-2.6
03:50 AM - 03:55 AM	50.0	49.7	-	41.2	48.6	-7.4
03:55 AM - 04:00 AM	50.0	49.5	-	43.4	48.5	-5.1
04:00 AM - 04:05 AM	50.2	49.1	-	46.7	48.1	-1.4
04:05 AM - 04:10 AM	50.1	49.5	-	44.2	48.2	-4.0
04:10 AM - 04:15 AM	49.9	49.1	-	45.2	48.0	-2.8
04:15 AM - 04:20 AM	49.9	49.4	-	43.3	48.3	-5.0
04:20 AM - 04:25 AM	50.0	49.5	-	43.4	48.5	-5.1
04:25 AM - 04:30 AM	50.0	50.5	-	n/a	48.9	-
04:30 AM - 04:35 AM	49.7	52.3	-	n/a	51.5	-
04:35 AM - 04:40 AM	49.7	50.7	-	n/a	49.1	-
04:40 AM - 04:45 AM	51.4	51.1	-	42.6	48.9	-6.3
04:45 AM - 04:50 AM	50.1	49.8	-	41.3	48.4	-7.1
04:50 AM - 04:55 AM	50.5	49.9	-	44.6	48.8	-4.2
04:55 AM - 05:00 AM	50.8	49.6	-	47.6	48.5	-0.9
05:00 AM - 05:05 AM	50.1	49.4	-	44.8	48.3	-3.5
05:05 AM - 05:10 AM	50.1	49.7	-	42.5	48.6	-6.1
05:10 AM - 05:15 AM	51.2	50.7	-	44.6	49.0	-4.4
05:15 AM - 05:20 AM	50.1	50.6	-	n/a	49.0	-
05:20 AM - 05:25 AM	50.4	49.5	-	46.1	48.4	-2.3
05:25 AM - 05:30 AM	50.5	49.8	-	45.2	48.6	-3.4
05:30 AM - 05:35 AM	50.3	50.0	-	41.5	48.6	-7.1
05:35 AM - 05:40 AM	50.2	50.6	-	n/a	48.9	-
05:40 AM - 05:45 AM	50.6	51.2	-	n/a	49.9	-
05:45 AM - 05:50 AM	50.8	49.4	-	48.2	48.3	-0.1
05:50 AM - 05:55 AM	51.3	51.2	-	37.9	48.9	-11.0
05:55 AM - 06:00 AM	61.0	60.8	-	50.5	60.1	-9.6
06:00 AM - 07:00 AM	54.5	57.6	n/a	-	50.0	-
07:00 AM - 08:00 AM	53.6	54.1	n/a	-	49.1	-
08:00 AM - 09:00 AM	52.5	50.5	48.2	-	48.2	0.0
09:00 AM - 10:00 AM	50.8	50.8	n/a	-	48.2	-
10:00 AM - 11:00 AM	51.2	52.3	n/a	-	48.0	-

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิกัดตรวจวัด วันที่ 04-05 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-17 วันที่ตรวจวัด 04-05 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Phakdang Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957036-1

Page 1 of 3

Sample No. 2432594-18
Parameter เสียงรบกวน
Location รั้วโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	53.2	53.5	-	-	48.2	-
12:00 PM - 01:00 PM	60.7	60.6	44.3	-	56.0	-11.7
01:00 PM - 02:00 PM	53.1	51.6	47.8	-	47.9	-0.1
02:00 PM - 03:00 PM	56.4	55.2	50.2	-	51.1	-0.9
03:00 PM - 04:00 PM	61.6	59.6	57.3	-	54.1	3.2
04:00 PM - 05:00 PM	52.2	52.2	n/a	-	48.5	-
05:00 PM - 06:00 PM	55.0	54.2	47.3	-	48.9	-1.6
06:00 PM - 07:00 PM	62.9	63.1	n/a	-	60.5	-
07:00 PM - 08:00 PM	55.3	54.0	49.4	-	51.0	-1.6
08:00 PM - 09:00 PM	56.2	57.6	n/a	-	52.4	-
09:00 PM - 10:00 PM	61.4	61.1	49.6	-	56.4	-6.8
10:00 PM - 10:05 PM	53.9	51.6	-	53.0	50.6	2.4
10:05 PM - 10:10 PM	60.3	58.5	-	58.6	54.1	4.5
10:10 PM - 10:15 PM	53.8	50.5	-	54.1	49.6	4.5
10:15 PM - 10:20 PM	51.1	50.4	-	45.8	49.5	-3.7
10:20 PM - 10:25 PM	51.1	51.0	-	37.7	49.6	-11.9
10:25 PM - 10:30 PM	51.0	50.8	-	40.5	49.9	-9.4
10:30 PM - 10:35 PM	50.9	51.0	-	n/a	50.2	-
10:35 PM - 10:40 PM	50.9	51.1	-	n/a	50.1	-
10:40 PM - 10:45 PM	51.2	51.5	-	n/a	50.2	-
10:45 PM - 10:50 PM	51.3	51.6	-	n/a	50.4	-
10:50 PM - 10:55 PM	51.5	51.9	-	n/a	51.3	-
10:55 PM - 11:00 PM	51.1	51.3	-	n/a	50.5	-
11:00 PM - 11:05 PM	51.2	51.1	-	37.8	50.3	-12.5
11:05 PM - 11:10 PM	51.6	51.0	-	45.7	50.1	-4.4
11:10 PM - 11:15 PM	51.5	53.9	-	n/a	50.4	-
11:15 PM - 11:20 PM	55.1	51.0	-	56.0	50.1	5.9
11:20 PM - 11:25 PM	50.7	50.9	-	n/a	50.1	-
11:25 PM - 11:30 PM	50.8	50.2	-	n/a	49.4	-4.5
11:30 PM - 11:35 PM	50.8	50.8	-	n/a	50.0	-
11:35 PM - 11:40 PM	51.4	50.3	-	47.9	49.5	-1.6
11:40 PM - 11:45 PM	51.2	50.1	-	47.7	49.2	-1.5
11:45 PM - 11:50 PM	50.6	49.8	-	45.9	49.1	-3.2
11:50 PM - 11:55 PM	50.7	50.1	-	44.8	49.1	-4.3
11:55 PM - 12:00 AM	50.9	53.4	-	n/a	49.1	-
12:00 AM - 12:05 AM	53.8	50.5	-	54.1	49.4	4.7
12:05 AM - 12:10 AM	51.0	51.5	-	n/a	51.0	-
12:10 AM - 12:15 AM	51.0	51.4	-	n/a	50.9	-
12:15 AM - 12:20 AM	51.1	51.6	-	n/a	50.7	-
12:20 AM - 12:25 AM	51.1	50.3	-	46.4	49.1	-2.7

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khui A. Phakdang Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-18
Parameter เสียงรบกวน
Location บริเวณโรงกลั่นปิโตรเคมี (GPS 47P 0735038, 1409712)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957036-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.0	51.1	-	n/a	49.9	-
12:30 AM - 12:35 AM	50.5	50.1	-	42.9	49.1	-6.2
12:35 AM - 12:40 AM	53.8	50.1	-	54.4	49.1	5.3
12:40 AM - 12:45 AM	67.1	66.5	-	61.2	64.6	-3.4
12:45 AM - 12:50 AM	60.9	59.7	-	57.7	48.5	9.2
12:50 AM - 12:55 AM	52.7	50.5	-	51.7	48.9	2.8
12:55 AM - 01:00 AM	50.8	50.1	-	45.5	49.2	-3.7
01:00 AM - 01:05 AM	50.5	49.5	-	46.6	48.6	-2.0
01:05 AM - 01:10 AM	50.2	50.0	-	39.7	49.1	-9.4
01:10 AM - 01:15 AM	50.7	49.7	-	46.8	49.0	-2.2
01:15 AM - 01:20 AM	50.1	49.6	-	43.5	48.8	-5.3
01:20 AM - 01:25 AM	50.1	49.6	-	43.5	48.8	-5.3
01:25 AM - 01:30 AM	50.1	52.5	-	n/a	49.3	-
01:30 AM - 01:35 AM	53.2	49.8	-	53.5	48.9	4.6
01:35 AM - 01:40 AM	50.7	50.5	-	40.2	48.7	-8.5
01:40 AM - 01:45 AM	51.3	50.0	-	48.4	48.8	-0.4
01:45 AM - 01:50 AM	51.0	50.0	-	47.1	48.6	-1.5
01:50 AM - 01:55 AM	50.6	50.4	-	40.1	49.1	-9.0
01:55 AM - 02:00 AM	50.6	50.2	-	43.0	49.0	-6.0
02:00 AM - 02:05 AM	50.3	50.4	-	n/a	49.4	-
02:05 AM - 02:10 AM	50.6	50.0	-	44.7	48.8	-4.1
02:10 AM - 02:15 AM	50.3	49.1	-	47.1	48.2	-1.1
02:15 AM - 02:20 AM	50.1	50.0	-	36.7	49.1	-12.4
02:20 AM - 02:25 AM	50.4	50.6	-	n/a	48.9	-
02:25 AM - 02:30 AM	50.1	51.4	-	n/a	50.8	-
02:30 AM - 02:35 AM	50.2	51.4	-	n/a	50.8	-
02:35 AM - 02:40 AM	50.1	51.4	-	n/a	50.7	-
02:40 AM - 02:45 AM	50.3	51.4	-	n/a	50.8	-
02:45 AM - 02:50 AM	50.2	51.6	-	n/a	50.9	-
02:50 AM - 02:55 AM	49.8	50.5	-	n/a	48.6	-
02:55 AM - 03:00 AM	49.7	52.0	-	n/a	48.4	-
03:00 AM - 03:05 AM	49.6	53.6	-	n/a	52.6	-
03:05 AM - 03:10 AM	50.0	53.1	-	n/a	52.5	-
03:10 AM - 03:15 AM	49.6	53.2	-	n/a	52.6	-
03:15 AM - 03:20 AM	49.8	53.7	-	n/a	52.9	-
03:20 AM - 03:25 AM	50.5	53.3	-	n/a	52.6	-
03:25 AM - 03:30 AM	50.0	53.4	-	n/a	52.8	-
03:30 AM - 03:35 AM	50.3	53.3	-	n/a	52.7	-
03:35 AM - 03:40 AM	49.9	53.2	-	n/a	52.6	-
03:40 AM - 03:45 AM	50.2	53.5	-	n/a	52.7	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-18
Parameter เสียงรบกวน
Location บริเวณโรงกลั่นปิโตรเคมี (GPS 47P 0735038, 1409712)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957036-1

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.4	53.3	-	n/a	52.6	-
03:50 AM - 03:55 AM	49.5	52.8	-	n/a	51.0	-
03:55 AM - 04:00 AM	49.2	52.7	-	n/a	51.8	-
04:00 AM - 04:05 AM	50.3	53.1	-	n/a	52.2	-
04:05 AM - 04:10 AM	50.0	53.5	-	n/a	52.8	-
04:10 AM - 04:15 AM	51.7	53.9	-	n/a	52.5	-
04:15 AM - 04:20 AM	49.8	52.7	-	n/a	51.9	-
04:20 AM - 04:25 AM	49.7	52.2	-	n/a	49.6	-
04:25 AM - 04:30 AM	49.7	52.0	-	n/a	49.5	-
04:30 AM - 04:35 AM	50.4	50.2	-	39.9	48.6	-8.7
04:35 AM - 04:40 AM	50.3	50.9	-	n/a	49.6	-
04:40 AM - 04:45 AM	51.8	50.4	-	49.2	49.3	-0.1
04:45 AM - 04:50 AM	51.7	50.5	-	48.5	49.2	-0.7
04:50 AM - 04:55 AM	51.1	50.9	-	40.6	49.8	-9.2
04:55 AM - 05:00 AM	51.4	50.6	-	46.7	49.0	-2.3
05:00 AM - 05:05 AM	50.6	50.0	-	44.7	48.5	-3.8
05:05 AM - 05:10 AM	50.2	49.8	-	42.6	48.4	-5.8
05:10 AM - 05:15 AM	50.4	50.2	-	39.9	48.8	-8.9
05:15 AM - 05:20 AM	50.9	50.2	-	45.6	48.9	-3.3
05:20 AM - 05:25 AM	50.9	50.5	-	43.3	49.0	-5.7
05:25 AM - 05:30 AM	50.6	51.1	-	n/a	49.1	-
05:30 AM - 05:35 AM	50.4	50.2	-	39.9	48.6	-8.7
05:35 AM - 05:40 AM	50.6	50.5	-	37.2	49.0	-11.8
05:40 AM - 05:45 AM	50.6	49.2	-	48.0	48.0	0.0
05:45 AM - 05:50 AM	53.1	51.1	-	51.8	50.0	1.8
05:50 AM - 05:55 AM	66.1	63.7	-	65.4	62.1	3.3
05:55 AM - 06:00 AM	64.5	62.6	-	63.0	59.7	3.3
06:00 AM - 07:00 AM	57.4	56.8	48.5	-	50.7	-2.2
07:00 AM - 08:00 AM	53.8	54.0	n/a	-	49.8	-
08:00 AM - 09:00 AM	53.0	52.1	45.7	-	47.3	-1.6
09:00 AM - 10:00 AM	51.8	49.5	47.9	-	47.1	0.8
10:00 AM - 11:00 AM	51.4	50.7	43.1	-	46.8	-3.7

ค่ามาตรฐาน

≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานเสียงทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด จากการตรวจวัด วันที่ 05-06 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2432594-18 วันที่ตรวจวัด 05-06 เมษายน 2567)
- ค่า: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957037-1

Sample No. 2432594-19
Parameter เสียงรบกวน
Location โรงครัวโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	60.0	58.3	55.1	-	53.0	2.1
12:00 PM - 01:00 PM	54.2	53.6	45.3	-	47.5	-2.2
01:00 PM - 02:00 PM	54.9	53.6	49.0	-	48.3	0.7
02:00 PM - 03:00 PM	53.5	52.1	47.9	-	48.3	-0.4
03:00 PM - 04:00 PM	62.3	61.1	56.1	-	55.5	0.6
04:00 PM - 05:00 PM	51.0	50.6	40.4	-	47.5	-7.1
05:00 PM - 06:00 PM	53.4	53.3	37.0	-	49.7	-12.7
06:00 PM - 07:00 PM	59.7	57.9	55.0	-	54.8	0.2
07:00 PM - 08:00 PM	59.0	57.8	52.8	-	54.0	-1.2
08:00 PM - 09:00 PM	56.7	57.4	n/a	-	52.4	-
09:00 PM - 10:00 PM	58.6	57.4	52.4	-	54.4	-2.0
10:00 PM - 10:05 PM	51.3	50.1	-	48.1	49.1	-1.0
10:05 PM - 10:10 PM	50.6	49.8	-	45.9	49.0	-3.1
10:10 PM - 10:15 PM	50.7	49.7	-	46.8	48.9	-2.1
10:15 PM - 10:20 PM	50.7	49.3	-	48.1	48.3	-0.2
10:20 PM - 10:25 PM	50.8	49.7	-	47.3	48.7	-1.4
10:25 PM - 10:30 PM	50.8	51.1	-	n/a	49.6	-
10:30 PM - 10:35 PM	50.9	50.2	-	45.6	49.5	-3.9
10:35 PM - 10:40 PM	51.6	50.8	-	46.9	49.6	-2.7
10:40 PM - 10:45 PM	51.4	50.7	-	46.1	49.7	-3.6
10:45 PM - 10:50 PM	51.1	51.4	-	n/a	50.3	-
10:50 PM - 10:55 PM	51.2	51.4	-	n/a	50.7	-
10:55 PM - 11:00 PM	51.2	51.4	-	n/a	50.5	-
11:00 PM - 11:05 PM	51.4	51.5	-	n/a	50.6	-
11:05 PM - 11:10 PM	51.3	49.4	-	49.8	48.7	1.1
11:10 PM - 11:15 PM	51.2	49.2	-	49.9	48.5	1.4
11:15 PM - 11:20 PM	67.7	66.8	-	63.4	63.8	-0.4
11:20 PM - 11:25 PM	68.5	66.8	-	66.6	63.8	2.8
11:25 PM - 11:30 PM	66.3	65.6	-	61.0	53.2	7.8
11:30 PM - 11:35 PM	52.0	51.9	-	38.6	51.1	-12.5
11:35 PM - 11:40 PM	51.4	51.9	-	n/a	51.2	-
11:40 PM - 11:45 PM	51.4	51.7	-	n/a	50.9	-
11:45 PM - 11:50 PM	51.4	53.1	-	n/a	51.0	-
11:50 PM - 11:55 PM	53.0	51.9	-	49.5	51.1	-1.6
11:55 PM - 12:00 AM	51.6	54.5	-	n/a	51.3	-
12:00 AM - 12:05 AM	51.7	51.9	-	n/a	50.5	-
12:05 AM - 12:10 AM	51.1	52.9	-	n/a	50.8	-
12:10 AM - 12:15 AM	51.2	51.7	-	n/a	50.4	-
12:15 AM - 12:20 AM	51.0	51.2	-	n/a	50.0	-
12:20 AM - 12:25 AM	51.0	51.0	-	n/a	50.3	-

Page 1 of 3

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khw. A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957037-1

Sample No. 2432594-19
Parameter เสียงรบกวน
Location โรงครัวโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.2	51.0	-	40.7	50.2	-9.5
12:30 AM - 12:35 AM	51.3	52.0	-	n/a	50.3	-
12:35 AM - 12:40 AM	51.2	53.6	-	n/a	51.7	-
12:40 AM - 12:45 AM	51.5	54.0	-	n/a	52.2	-
12:45 AM - 12:50 AM	51.2	53.7	-	n/a	51.4	-
12:50 AM - 12:55 AM	51.0	51.1	-	n/a	50.2	-
12:55 AM - 01:00 AM	50.8	51.6	-	n/a	50.3	-
01:00 AM - 01:05 AM	50.6	51.5	-	n/a	50.3	-
01:05 AM - 01:10 AM	50.8	52.7	-	n/a	50.4	-
01:10 AM - 01:15 AM	50.9	51.5	-	n/a	50.5	-
01:15 AM - 01:20 AM	51.0	51.6	-	n/a	50.4	-
01:20 AM - 01:25 AM	51.2	51.2	-	n/a	50.4	-
01:25 AM - 01:30 AM	51.1	52.1	-	n/a	50.1	-
01:30 AM - 01:35 AM	50.9	51.3	-	n/a	49.9	-
01:35 AM - 01:40 AM	50.7	51.0	-	n/a	49.7	-
01:40 AM - 01:45 AM	51.0	51.2	-	n/a	50.0	-
01:45 AM - 01:50 AM	50.9	51.1	-	n/a	50.4	-
01:50 AM - 01:55 AM	50.9	51.5	-	n/a	50.6	-
01:55 AM - 02:00 AM	50.9	53.1	-	n/a	49.5	-2.5
02:00 AM - 02:05 AM	51.3	50.4	-	47.0	51.5	8.5
02:05 AM - 02:10 AM	63.9	62.9	-	60.0	66.1	-1.3
02:10 AM - 02:15 AM	68.0	66.8	-	64.8	50.4	1.8
02:15 AM - 02:20 AM	53.5	51.5	-	52.2	50.6	1.3
02:20 AM - 02:25 AM	53.6	51.8	-	51.9	50.5	-
02:25 AM - 02:30 AM	50.9	51.9	-	n/a	49.9	-
02:30 AM - 02:35 AM	50.8	51.1	-	n/a	50.3	-
02:35 AM - 02:40 AM	50.6	53.2	-	n/a	50.2	-
02:40 AM - 02:45 AM	50.9	52.3	-	n/a	49.9	-
02:45 AM - 02:50 AM	51.3	51.7	-	n/a	50.5	-
02:50 AM - 02:55 AM	50.8	53.3	-	n/a	50.1	-
02:55 AM - 03:00 AM	50.7	52.7	-	n/a	50.2	-
03:00 AM - 03:05 AM	50.8	51.3	-	n/a	50.8	-
03:05 AM - 03:10 AM	50.8	51.7	-	n/a	50.1	-
03:10 AM - 03:15 AM	50.9	51.5	-	n/a	50.3	-
03:15 AM - 03:20 AM	50.9	51.6	-	n/a	50.1	-9.4
03:20 AM - 03:25 AM	51.2	51.0	-	40.7	50.2	-
03:25 AM - 03:30 AM	50.8	51.2	-	n/a	49.5	-
03:30 AM - 03:35 AM	50.6	50.6	-	n/a	49.1	-5.3
03:35 AM - 03:40 AM	50.4	49.9	-	43.8	49.7	-
03:40 AM - 03:45 AM	50.4	50.5	-	n/a	-	-

Page 2 of 3

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khw. A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957037-1

Page 3 of 3

Sample No. 2432594-19
Parameter เสียงรบกวน
Location รั้วโรงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.3	51.0	-	n/a	50.1	-
03:50 AM - 03:55 AM	50.7	52.4	-	n/a	50.3	-
03:55 AM - 04:00 AM	50.9	54.4	-	n/a	51.5	-
04:00 AM - 04:05 AM	51.1	52.2	-	n/a	51.6	-
04:05 AM - 04:10 AM	50.7	52.4	-	n/a	51.5	-
04:10 AM - 04:15 AM	50.8	51.8	-	n/a	50.2	-
04:15 AM - 04:20 AM	50.6	50.8	-	n/a	49.6	-
04:20 AM - 04:25 AM	50.7	52.2	-	n/a	51.5	-
04:25 AM - 04:30 AM	50.6	52.7	-	n/a	51.4	-
04:30 AM - 04:35 AM	51.0	52.1	-	n/a	49.9	-
04:35 AM - 04:40 AM	50.9	52.1	-	n/a	49.9	-
04:40 AM - 04:45 AM	51.2	52.8	-	n/a	50.6	-
04:45 AM - 04:50 AM	51.0	51.6	-	n/a	50.3	-
04:50 AM - 04:55 AM	51.0	50.5	-	44.4	49.8	-5.4
04:55 AM - 05:00 AM	50.8	51.5	-	n/a	49.9	-
05:00 AM - 05:05 AM	50.5	53.1	-	n/a	51.8	-
05:05 AM - 05:10 AM	50.8	52.5	-	n/a	51.5	-
05:10 AM - 05:15 AM	50.9	52.3	-	n/a	51.5	-
05:15 AM - 05:20 AM	50.6	51.6	-	n/a	50.0	-
05:20 AM - 05:25 AM	50.9	51.2	-	n/a	50.0	-
05:25 AM - 05:30 AM	50.8	51.4	-	n/a	49.5	-
05:30 AM - 05:35 AM	51.0	50.9	-	37.6	49.8	-12.2
05:35 AM - 05:40 AM	52.8	50.6	-	51.8	49.6	2.2
05:40 AM - 05:45 AM	68.0	66.6	-	65.4	56.7	8.7
05:45 AM - 05:50 AM	66.5	64.9	-	64.4	64.0	0.4
05:50 AM - 05:55 AM	55.0	54.5	-	48.4	50.1	-1.7
05:55 AM - 06:00 AM	51.3	51.0	-	42.5	49.9	-7.4
06:00 AM - 07:00 AM	55.7	56.7	n/a	-	50.1	-
07:00 AM - 08:00 AM	52.5	53.6	n/a	-	48.3	-
08:00 AM - 09:00 AM	51.6	50.6	44.7	-	47.6	-2.9
09:00 AM - 10:00 AM	51.6	51.2	41.0	-	47.8	-6.8
10:00 AM - 11:00 AM	50.9	53.4	n/a	-	50.3	-
ค่ามาตรฐาน						≤ 10

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดจำกัดเสียงอันเกิดจากการประกอบกิจการเป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark :

- ระดับเสียงจากแหล่งกำเนิด พิจารณาตรวจวัด วันที่ 06-07 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรมการรบกวน (Sample No.2432591-19 วันที่ตรวจวัด 06-07 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีการรบกวนเนื่องจากระดับเสียงจากแหล่งกำเนิดอยู่ต่ำกว่าระดับเสียงขณะมีการรบกวน

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate can be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957038-1

Page 1 of 3

Sample No. 2432594-20
Parameter เสียงรบกวน
Location รั้วโรงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรมการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	51.4	51.3	35.0	-	47.7	-12.7
12:00 PM - 01:00 PM	53.0	52.2	45.3	-	47.7	-2.4
01:00 PM - 02:00 PM	56.4	54.8	51.3	-	49.0	2.3
02:00 PM - 03:00 PM	52.3	52.3	n/a	-	46.7	-
03:00 PM - 04:00 PM	53.8	53.0	46.1	-	49.5	-3.4
04:00 PM - 05:00 PM	54.5	54.5	n/a	-	51.3	-
05:00 PM - 06:00 PM	54.8	54.7	38.4	-	51.9	-13.5
06:00 PM - 07:00 PM	52.7	51.9	45.0	-	48.1	-3.1
07:00 PM - 08:00 PM	61.7	59.9	57.0	-	57.9	-0.9
08:00 PM - 09:00 PM	57.5	56.3	51.3	-	53.6	-2.3
09:00 PM - 10:00 PM	57.0	55.7	51.1	-	52.5	-1.4
10:00 PM - 10:05 PM	51.8	51.1	-	46.5	50.4	-3.9
10:05 PM - 10:10 PM	51.8	51.3	-	45.2	50.7	-5.5
10:10 PM - 10:15 PM	51.7	51.6	-	38.3	50.9	-12.6
10:15 PM - 10:20 PM	52.0	51.6	-	44.4	51.1	-6.7
10:20 PM - 10:25 PM	52.0	51.7	-	43.2	51.1	-7.9
10:25 PM - 10:30 PM	52.1	51.8	-	43.3	50.9	-7.6
10:30 PM - 10:35 PM	51.9	52.3	-	n/a	51.1	-
10:35 PM - 10:40 PM	51.9	53.7	-	n/a	51.7	-
10:40 PM - 10:45 PM	52.1	53.6	-	n/a	51.9	-
10:45 PM - 10:50 PM	52.1	52.1	-	n/a	50.4	-
10:50 PM - 10:55 PM	52.1	51.2	-	47.8	50.4	-2.6
10:55 PM - 11:00 PM	52.0	51.3	-	46.7	50.6	-3.9
11:00 PM - 11:05 PM	52.1	50.8	-	49.2	50.3	-1.1
11:05 PM - 11:10 PM	52.0	51.3	-	46.7	50.7	-4.0
11:10 PM - 11:15 PM	52.5	52.3	-	42.0	51.0	-9.0
11:15 PM - 11:20 PM	52.7	51.1	-	50.6	50.4	0.2
11:20 PM - 11:25 PM	51.8	51.3	-	45.2	50.6	-5.4
11:25 PM - 11:30 PM	51.9	51.2	-	46.6	50.2	-3.6
11:30 PM - 11:35 PM	51.5	51.4	-	38.1	51.0	-12.9
11:35 PM - 11:40 PM	51.2	51.4	-	n/a	51.0	-
11:40 PM - 11:45 PM	51.6	52.0	-	n/a	51.1	-
11:45 PM - 11:50 PM	53.3	53.3	-	n/a	42.7	-
11:50 PM - 11:55 PM	54.4	53.7	-	49.1	51.7	-2.6
11:55 PM - 12:00 AM	66.4	64.5	-	64.9	63.4	1.5
12:00 AM - 12:05 AM	64.9	62.8	-	63.7	58.3	5.4
12:05 AM - 12:10 AM	55.8	50.7	-	57.2	49.9	7.3
12:10 AM - 12:15 AM	50.7	51.1	-	n/a	50.4	-
12:15 AM - 12:20 AM	50.9	50.6	-	42.1	49.7	-7.6
12:20 AM - 12:25 AM	50.6	50.1	-	44.0	49.1	-5.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate can be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957038-1

Sample No. : 2432594-20
Parameter : เสียงรบกวน
Location : ซิมรีโครมการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764920

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.0	53.2	-	n/a	52.1	-
12:30 AM - 12:35 AM	51.7	51.5	-	41.2	50.2	-9.0
12:35 AM - 12:40 AM	51.4	50.8	-	45.5	49.8	-4.3
12:40 AM - 12:45 AM	51.9	50.2	-	50.0	49.6	0.4
12:45 AM - 12:50 AM	51.8	50.1	-	49.9	49.4	0.5
12:50 AM - 12:55 AM	51.4	50.2	-	48.2	49.5	-1.3
12:55 AM - 01:00 AM	51.1	49.9	-	47.9	49.0	-1.1
01:00 AM - 01:05 AM	51.0	50.0	-	47.1	48.9	-1.8
01:05 AM - 01:10 AM	51.1	49.4	-	49.2	48.4	0.8
01:10 AM - 01:15 AM	50.7	49.2	-	48.4	48.1	0.3
01:15 AM - 01:20 AM	50.4	49.5	-	46.1	48.3	-2.2
01:20 AM - 01:25 AM	50.8	51.4	-	n/a	49.0	-
01:25 AM - 01:30 AM	51.6	50.7	-	47.3	49.4	-2.1
01:30 AM - 01:35 AM	52.2	51.5	-	46.9	50.7	-3.8
01:35 AM - 01:40 AM	52.1	51.2	-	47.8	50.5	-2.7
01:40 AM - 01:45 AM	52.0	51.2	-	47.3	50.5	-3.2
01:45 AM - 01:50 AM	51.8	51.9	-	n/a	51.1	-
01:50 AM - 01:55 AM	51.4	51.2	-	40.9	50.5	-9.6
01:55 AM - 02:00 AM	51.3	51.4	-	n/a	50.5	-
02:00 AM - 02:05 AM	51.5	51.6	-	n/a	50.8	-
02:05 AM - 02:10 AM	51.5	51.2	-	42.7	50.4	-7.7
02:10 AM - 02:15 AM	51.2	51.7	-	n/a	50.9	-
02:15 AM - 02:20 AM	51.0	51.6	-	n/a	50.6	-
02:20 AM - 02:25 AM	50.4	51.4	-	n/a	50.2	-
02:25 AM - 02:30 AM	49.6	51.2	-	n/a	50.4	-
02:30 AM - 02:35 AM	58.0	57.1	-	53.7	48.2	5.5
02:35 AM - 02:40 AM	58.4	57.4	-	54.5	47.3	7.2
02:40 AM - 02:45 AM	50.3	53.2	-	n/a	48.7	-
02:45 AM - 02:50 AM	59.2	58.1	-	55.7	49.2	6.5
02:50 AM - 02:55 AM	64.9	62.7	-	63.9	59.7	4.2
02:55 AM - 03:00 AM	61.3	62.9	-	n/a	49.0	-
03:00 AM - 03:05 AM	62.2	62.3	-	n/a	49.7	-
03:05 AM - 03:10 AM	50.1	48.9	-	46.9	48.0	-1.1
03:10 AM - 03:15 AM	49.8	49.3	-	43.2	48.2	-5.0
03:15 AM - 03:20 AM	50.0	48.9	-	46.5	47.8	-1.3
03:20 AM - 03:25 AM	49.9	49.2	-	44.6	47.9	-3.3
03:25 AM - 03:30 AM	50.7	49.8	-	46.4	48.4	-2.0
03:30 AM - 03:35 AM	50.6	49.4	-	47.4	48.1	-0.7
03:35 AM - 03:40 AM	50.5	49.1	-	47.9	48.0	-0.1
03:40 AM - 03:45 AM	49.8	49.1	-	44.5	48.0	-3.5

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Boririk

Wilawan Boririk
Manager



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957038-1

Sample No. : 2432594-20
Parameter : เสียงรบกวน
Location : ซิมรีโครมการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764920

Page 3 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	เสียงขณะมีกิจกรรม		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.0	48.8	-	46.8	47.9	-1.1
03:50 AM - 03:55 AM	50.0	49.5	-	43.4	48.4	-5.0
03:55 AM - 04:00 AM	50.3	50.1	-	39.8	48.8	-9.0
04:00 AM - 04:05 AM	50.2	48.6	-	48.1	47.7	0.4
04:05 AM - 04:10 AM	49.9	50.0	-	n/a	48.3	-
04:10 AM - 04:15 AM	50.6	49.6	-	46.7	48.4	-1.7
04:15 AM - 04:20 AM	50.3	49.3	-	46.4	48.2	-1.8
04:20 AM - 04:25 AM	50.3	51.5	-	n/a	49.0	-
04:25 AM - 04:30 AM	50.2	50.1	-	36.8	48.2	-11.4
04:30 AM - 04:35 AM	49.7	50.0	-	n/a	48.8	-
04:35 AM - 04:40 AM	49.7	49.0	-	44.4	47.9	-3.5
04:40 AM - 04:45 AM	49.6	49.6	-	n/a	48.4	-
04:45 AM - 04:50 AM	50.0	50.4	-	n/a	48.4	-
04:50 AM - 04:55 AM	50.7	49.5	-	47.5	48.1	-0.6
04:55 AM - 05:00 AM	50.0	49.9	-	36.6	48.6	-12.0
05:00 AM - 05:05 AM	50.6	50.8	-	n/a	49.5	-
05:05 AM - 05:10 AM	50.3	50.5	-	n/a	49.5	-
05:10 AM - 05:15 AM	50.2	50.4	-	n/a	49.2	-
05:15 AM - 05:20 AM	50.2	49.5	-	44.9	48.4	-3.5
05:20 AM - 05:25 AM	50.1	50.4	-	n/a	49.2	-
05:25 AM - 05:30 AM	50.3	51.1	-	n/a	49.6	-
05:30 AM - 05:35 AM	50.0	51.3	-	n/a	49.6	-
05:35 AM - 05:40 AM	50.0	51.0	-	n/a	49.6	-
05:40 AM - 05:45 AM	50.3	51.6	-	n/a	49.5	-
05:45 AM - 05:50 AM	50.5	51.8	-	n/a	49.8	-
05:50 AM - 05:55 AM	50.4	51.4	-	n/a	49.0	-
05:55 AM - 06:00 AM	50.5	52.5	-	n/a	50.2	-
06:00 AM - 07:00 AM	51.4	51.2	37.9	-	49.2	-11.3
07:00 AM - 08:00 AM	54.5	54.5	n/a	-	50.3	-
08:00 AM - 09:00 AM	53.5	53.2	41.7	-	49.7	-8.0
09:00 AM - 10:00 AM	52.1	51.3	44.4	-	48.8	-4.4
10:00 AM - 11:00 AM	51.1	50.4	42.8	-	47.9	-5.1

ค่ามาตรฐาน

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง ค่าเกณฑ์ระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศกระทรวงสาธารณสุข เรื่อง ค่าเกณฑ์มาตรฐานระดับเสียงอันเกิดจากการประกอบกิจการที่ขึ้นอันตราต่อสุขภาพ พ.ศ. 2561

Remark:

- ระดับเสียงจากแหล่งกำเนิด พิจารณารวมถึง วันที่ 07-08 เมษายน 2567
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-20 วันที่ตรวจวัด 07-08 เมษายน 2567)
- n/a: ไม่สามารถคำนวณระดับเสียงขณะมีกิจกรรมเนื่องจากระดับเสียงจากแหล่งกำเนิดต่ำกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Boririk

Wilawan Boririk
Manager



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-21
Parameter เสียงรบกวน
Location ชิมวีโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957039-1

Page 1 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
11:00 AM - 12:00 PM	51.4	50.2	45.2	-	48.0	-2.8
12:00 PM - 01:00 PM	50.7	49.7	43.8	-	46.3	-2.5
01:00 PM - 02:00 PM	51.6	52.2	n/a	-	48.5	-
02:00 PM - 03:00 PM	55.1	53.3	50.4	-	48.4	2.0
03:00 PM - 04:00 PM	55.7	54.1	50.6	-	48.3	2.3
04:00 PM - 05:00 PM	53.2	52.4	45.5	-	48.0	-2.5
05:00 PM - 06:00 PM	54.7	53.5	48.5	-	48.2	0.3
06:00 PM - 07:00 PM	53.5	54.5	n/a	-	50.0	-
07:00 PM - 08:00 PM	53.0	53.4	n/a	-	51.6	-
08:00 PM - 09:00 PM	53.8	52.9	46.5	-	50.5	-4.0
09:00 PM - 10:00 PM	51.6	50.5	45.1	-	49.4	-4.3
10:00 PM - 10:05 PM	51.0	50.0	-	47.1	49.1	-2.0
10:05 PM - 10:10 PM	50.8	49.6	-	47.6	48.9	-1.3
10:10 PM - 10:15 PM	53.8	52.9	-	49.5	48.9	0.6
10:15 PM - 10:20 PM	50.8	50.7	-	37.4	49.3	-11.9
10:20 PM - 10:25 PM	51.9	49.8	-	50.7	48.8	1.9
10:25 PM - 10:30 PM	52.3	49.8	-	51.7	48.9	2.8
10:30 PM - 10:35 PM	52.7	49.6	-	52.8	48.8	4.0
10:35 PM - 10:40 PM	52.8	49.6	-	53.0	48.6	4.4
10:40 PM - 10:45 PM	56.0	53.5	-	55.4	50.3	5.1
10:45 PM - 10:50 PM	51.9	50.9	-	48.0	50.3	-2.3
10:50 PM - 10:55 PM	51.4	50.9	-	44.8	50.3	-5.5
10:55 PM - 11:00 PM	51.4	50.4	-	47.5	49.8	-2.3
11:00 PM - 11:05 PM	51.3	50.7	-	45.4	50.0	-4.6
11:05 PM - 11:10 PM	51.5	50.6	-	44.2	50.0	-2.8
11:10 PM - 11:15 PM	51.4	50.9	-	44.8	50.2	-5.4
11:15 PM - 11:20 PM	51.9	51.1	-	47.2	50.3	-3.1
11:20 PM - 11:25 PM	53.9	51.1	-	53.7	50.5	3.2
11:25 PM - 11:30 PM	51.8	52.7	-	n/a	50.4	-
11:30 PM - 11:35 PM	52.5	51.1	-	49.9	50.5	-0.6
11:35 PM - 11:40 PM	51.9	51.2	-	46.6	50.6	-4.0
11:40 PM - 11:45 PM	52.2	51.4	-	47.5	50.8	-3.3
11:45 PM - 11:50 PM	52.0	51.5	-	45.4	51.0	-5.6
11:50 PM - 11:55 PM	51.7	51.4	-	42.9	50.9	-8.0
11:55 PM - 12:00 AM	51.7	51.2	-	45.1	50.6	-5.5
12:00 AM - 12:05 AM	51.6	51.4	-	41.1	50.9	-9.8
12:05 AM - 12:10 AM	51.7	51.9	-	n/a	51.5	-
12:10 AM - 12:15 AM	51.2	51.7	-	n/a	51.0	-
12:15 AM - 12:20 AM	51.4	51.2	-	40.9	50.8	-9.9
12:20 AM - 12:25 AM	51.2	51.1	-	37.8	50.5	-12.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432594-21
Parameter เสียงรบกวน
Location ชิมวีโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957039-1

Page 2 of 3

ระดับเสียง (dB(A))						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	เสียงขณะมีการรบกวน		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
12:25 AM - 12:30 AM	51.0	50.8	-	40.5	50.2	-9.7
12:30 AM - 12:35 AM	50.8	50.7	-	37.4	50.1	-12.7
12:35 AM - 12:40 AM	50.6	50.7	-	n/a	50.1	-
12:40 AM - 12:45 AM	50.6	50.8	-	n/a	50.2	-
12:45 AM - 12:50 AM	50.8	51.0	-	n/a	50.4	-
12:50 AM - 12:55 AM	50.8	51.4	-	n/a	50.8	-
12:55 AM - 01:00 AM	51.0	51.7	-	n/a	50.9	-
01:00 AM - 01:05 AM	50.9	52.1	-	n/a	51.5	-
01:05 AM - 01:10 AM	52.1	51.9	-	41.6	51.3	-9.7
01:10 AM - 01:15 AM	52.7	50.2	-	52.1	49.6	2.5
01:15 AM - 01:20 AM	52.8	50.1	-	52.5	49.5	3.0
01:20 AM - 01:25 AM	52.3	50.1	-	51.3	49.5	1.8
01:25 AM - 01:30 AM	51.0	51.8	-	n/a	50.6	-
01:30 AM - 01:35 AM	50.9	51.2	-	n/a	50.6	-
01:35 AM - 01:40 AM	51.3	51.5	-	n/a	50.7	-
01:40 AM - 01:45 AM	51.6	52.2	-	n/a	51.3	-
01:45 AM - 01:50 AM	51.0	51.5	-	n/a	50.9	-
01:50 AM - 01:55 AM	51.0	51.7	-	n/a	50.6	-
01:55 AM - 02:00 AM	51.3	52.8	-	n/a	51.2	-
02:00 AM - 02:05 AM	50.9	53.7	-	n/a	53.0	-
02:05 AM - 02:10 AM	53.5	55.0	-	n/a	50.5	-
02:10 AM - 02:15 AM	50.9	50.9	-	n/a	50.0	-
02:15 AM - 02:20 AM	50.8	50.5	-	42.0	49.5	-7.5
02:20 AM - 02:25 AM	50.7	50.4	-	41.9	49.4	-7.5
02:25 AM - 02:30 AM	50.9	50.3	-	45.0	49.6	-4.6
02:30 AM - 02:35 AM	51.3	50.5	-	46.6	49.8	-3.2
02:35 AM - 02:40 AM	51.0	50.4	-	45.1	49.8	-4.7
02:40 AM - 02:45 AM	50.7	51.2	-	n/a	49.8	-
02:45 AM - 02:50 AM	50.4	50.0	-	42.8	49.4	-6.6
02:50 AM - 02:55 AM	50.8	50.2	-	44.9	49.5	-4.6
02:55 AM - 03:00 AM	50.8	50.5	-	42.0	49.6	-7.6
03:00 AM - 03:05 AM	51.0	50.8	-	40.5	49.6	-9.1
03:05 AM - 03:10 AM	50.4	51.2	-	n/a	50.0	-
03:10 AM - 03:15 AM	50.5	51.7	-	n/a	51.0	-
03:15 AM - 03:20 AM	50.6	51.8	-	n/a	51.0	-
03:20 AM - 03:25 AM	50.3	51.8	-	n/a	51.0	-
03:25 AM - 03:30 AM	50.3	51.5	-	n/a	50.6	-
03:30 AM - 03:35 AM	50.5	50.5	-	n/a	49.7	-
03:35 AM - 03:40 AM	50.4	50.8	-	n/a	49.7	-
03:40 AM - 03:45 AM	51.7	51.8	-	n/a	49.7	-

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilaw
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432594
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report Number : 2957039-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432594-21
Parameter เสียงรบกวน
Location บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735038, 1409712)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764920

เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีกิจกรรม	ระดับเสียง (dB(A))		เสียงพื้นฐาน	ค่าระดับการรบกวน
			กลางวัน	กลางคืน		
03:45 AM - 03:50 AM	50.5	51.8	-	น/อ	49.6	-
03:50 AM - 03:55 AM	50.6	49.4	-	47.4	48.7	-1.3
03:55 AM - 04:00 AM	50.6	50.4	-	40.1	49.4	-9.3
04:00 AM - 04:05 AM	50.0	50.1	-	น/อ	48.6	-
04:05 AM - 04:10 AM	50.4	49.3	-	46.9	48.5	-1.6
04:10 AM - 04:15 AM	50.4	49.6	-	45.7	48.8	-3.1
04:15 AM - 04:20 AM	50.4	49.9	-	43.8	49.0	-5.2
04:20 AM - 04:25 AM	50.6	50.1	-	44.0	49.0	-5.0
04:25 AM - 04:30 AM	50.6	50.5	-	37.2	49.5	-12.3
04:30 AM - 04:35 AM	50.8	51.9	-	น/อ	50.3	-
04:35 AM - 04:40 AM	50.8	52.7	-	น/อ	50.9	-
04:40 AM - 04:45 AM	50.8	52.1	-	น/อ	50.7	-
04:45 AM - 04:50 AM	50.3	52.3	-	น/อ	50.5	-
04:50 AM - 04:55 AM	50.3	52.3	-	น/อ	49.9	-
04:55 AM - 05:00 AM	50.3	51.4	-	น/อ	49.3	-
05:00 AM - 05:05 AM	50.5	52.0	-	น/อ	50.0	-
05:05 AM - 05:10 AM	50.7	52.2	-	น/อ	50.3	-
05:10 AM - 05:15 AM	51.2	52.7	-	น/อ	50.7	-
05:15 AM - 05:20 AM	51.4	51.8	-	น/อ	50.3	-
05:20 AM - 05:25 AM	51.1	52.3	-	น/อ	50.5	-
05:25 AM - 05:30 AM	50.1	52.1	-	น/อ	50.2	-
05:30 AM - 05:35 AM	50.5	51.6	-	น/อ	49.6	-
05:35 AM - 05:40 AM	51.9	52.4	-	น/อ	49.8	-
05:40 AM - 05:45 AM	53.6	50.8	-	53.4	49.5	3.9
05:45 AM - 05:50 AM	52.6	50.7	-	51.1	49.3	1.8
05:50 AM - 05:55 AM	51.9	51.0	-	47.6	49.0	-1.4
05:55 AM - 06:00 AM	57.5	59.7	-	น/อ	50.7	-
06:00 AM - 07:00 AM	54.1	53.5	45.2	-	50.2	-5.0
07:00 AM - 08:00 AM	55.2	55.2	น/อ	-	49.2	-
08:00 AM - 09:00 AM	52.7	51.9	45.0	-	48.4	-3.4
09:00 AM - 10:00 AM	51.2	49.9	45.3	-	47.8	-2.5
10:00 AM - 11:00 AM	53.4	54.3	น/อ	-	49.5	-
ค่ามาตรฐาน						≤ 10

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานและขีดทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

Remark:
1. ระดับเสียงจากแหล่งกำเนิด พิกัดตรวจวัด วันที่ 08-09 เมษายน 2567
2. ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีกิจกรรม (Sample No.2432591-21 วันที่ตรวจวัด 08-09 เมษายน 2567)
3. น/อ: ไม่สามารถคำนวณระดับเสียงขณะมีกิจกรรมเนื่องจากระดับเสียงจากแหล่งกำเนิดน้อยกว่าระดับเสียงขณะไม่มีกิจกรรม

The above results are valid only for the instrument(s) tested and/or indicated in this report. No part of this report or its contents may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ระดับเสียง Shutdown



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957117-1

Sample No. 2432537-1
Parameter Noise
Location หมู่บ้านพหลุค (ณีนพหลุค) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.3	68.7	49.4
10:00 AM - 11:00 AM	54.9	83.2	49.8
11:00 AM - 12:00 PM	53.9	65.4	48.9
12:00 PM - 01:00 PM	56.4	70.0	52.9
01:00 PM - 02:00 PM	56.2	75.3	52.6
02:00 PM - 03:00 PM	56.9	69.4	53.7
03:00 PM - 04:00 PM	56.7	73.0	53.5
04:00 PM - 05:00 PM	57.3	72.0	54.4
05:00 PM - 06:00 PM	58.0	77.7	55.0
06:00 PM - 07:00 PM	57.9	82.7	54.2
07:00 PM - 08:00 PM	58.1	70.6	55.3
08:00 PM - 09:00 PM	56.0	66.3	53.6
09:00 PM - 10:00 PM	55.8	74.7	52.7
10:00 PM - 10:05 PM	54.0	60.6	51.7
10:05 PM - 10:10 PM	54.2	58.9	52.7
10:10 PM - 10:15 PM	54.4	63.2	52.6
10:15 PM - 10:20 PM	54.0	57.7	52.1
10:20 PM - 10:25 PM	56.5	73.4	53.4
10:25 PM - 10:30 PM	54.6	59.0	52.4
10:30 PM - 10:35 PM	54.8	59.2	53.4
10:35 PM - 10:40 PM	54.3	60.0	50.6
10:40 PM - 10:45 PM	55.1	62.7	52.9
10:45 PM - 10:50 PM	54.7	59.1	51.5
10:50 PM - 10:55 PM	54.6	62.5	51.3
10:55 PM - 11:00 PM	54.8	60.4	52.7
11:00 PM - 11:05 PM	53.7	57.3	51.2
11:05 PM - 11:10 PM	54.4	60.4	52.8
11:10 PM - 11:15 PM	54.9	66.4	51.5
11:15 PM - 11:20 PM	54.5	61.8	52.9
11:20 PM - 11:25 PM	54.2	59.8	50.9
11:25 PM - 11:30 PM	54.5	63.8	51.7
11:30 PM - 11:35 PM	55.9	67.3	53.3
11:35 PM - 11:40 PM	53.8	62.8	52.1
11:40 PM - 11:45 PM	54.1	58.8	52.8
11:45 PM - 11:50 PM	53.9	58.5	51.6
11:50 PM - 11:55 PM	54.3	59.8	53.0
11:55 PM - 12:00 AM	53.8	61.5	51.5
12:00 AM - 12:05 AM	54.5	63.6	52.8
12:05 AM - 12:10 AM	54.7	71.0	51.7
12:10 AM - 12:15 AM	53.7	59.3	51.0

Page 1 of 3

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957117-1

Sample No. 2432537-1
Parameter Noise
Location หมู่บ้านพหลุค (ณีนพหลุค) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	54.0	59.0	53.0
12:20 AM - 12:25 AM	54.7	63.2	52.0
12:25 AM - 12:30 AM	55.2	68.4	53.4
12:30 AM - 12:35 AM	56.1	69.7	52.7
12:35 AM - 12:40 AM	56.1	74.9	53.1
12:40 AM - 12:45 AM	54.5	61.7	51.1
12:45 AM - 12:50 AM	54.3	58.2	51.2
12:50 AM - 12:55 AM	54.8	59.3	53.4
12:55 AM - 01:00 AM	53.9	56.8	51.3
01:00 AM - 01:05 AM	54.3	57.4	53.0
01:05 AM - 01:10 AM	54.5	59.2	51.2
01:10 AM - 01:15 AM	54.8	60.5	53.4
01:15 AM - 01:20 AM	53.8	60.8	50.8
01:20 AM - 01:25 AM	53.9	59.2	52.1
01:25 AM - 01:30 AM	54.4	59.7	52.6
01:30 AM - 01:35 AM	53.8	59.4	50.8
01:35 AM - 01:40 AM	54.7	58.4	53.3
01:40 AM - 01:45 AM	54.0	57.8	52.2
01:45 AM - 01:50 AM	54.1	61.4	52.9
01:50 AM - 01:55 AM	53.7	57.2	50.9
01:55 AM - 02:00 AM	54.3	60.7	52.8
02:00 AM - 02:05 AM	54.4	62.6	51.7
02:05 AM - 02:10 AM	54.1	57.4	52.2
02:10 AM - 02:15 AM	53.9	56.9	52.3
02:15 AM - 02:20 AM	53.6	61.9	51.0
02:20 AM - 02:25 AM	53.8	58.1	52.7
02:25 AM - 02:30 AM	53.3	64.1	51.1
02:30 AM - 02:35 AM	54.9	65.6	52.9
02:35 AM - 02:40 AM	53.5	61.3	50.8
02:40 AM - 02:45 AM	53.7	55.4	52.9
02:45 AM - 02:50 AM	55.0	67.8	50.7
02:50 AM - 02:55 AM	53.8	56.7	52.7
02:55 AM - 03:00 AM	53.2	56.0	50.7
03:00 AM - 03:05 AM	54.1	64.9	53.0
03:05 AM - 03:10 AM	53.5	56.0	51.9
03:10 AM - 03:15 AM	53.9	56.4	52.8
03:15 AM - 03:20 AM	54.0	61.3	51.0
03:20 AM - 03:25 AM	54.2	69.3	52.9
03:25 AM - 03:30 AM	53.5	57.9	50.6
03:30 AM - 03:35 AM	54.0	57.4	53.2

Page 2 of 3

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957117-1

Sample No. 2432537-1
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	53.8	56.8	51.2
03:40 AM - 03:45 AM	53.8	59.6	51.5
03:45 AM - 03:50 AM	53.9	57.2	52.4
03:50 AM - 03:55 AM	53.7	58.4	51.1
03:55 AM - 04:00 AM	53.9	57.5	52.9
04:00 AM - 04:05 AM	53.7	56.5	51.1
04:05 AM - 04:10 AM	54.2	59.6	52.5
04:10 AM - 04:15 AM	53.4	55.6	50.7
04:15 AM - 04:20 AM	54.3	58.5	53.1
04:20 AM - 04:25 AM	53.7	57.7	51.5
04:25 AM - 04:30 AM	54.4	62.2	52.9
04:30 AM - 04:35 AM	53.4	60.5	51.0
04:35 AM - 04:40 AM	54.3	63.6	52.9
04:40 AM - 04:45 AM	53.5	57.3	51.1
04:45 AM - 04:50 AM	54.8	63.3	52.9
04:50 AM - 04:55 AM	54.3	63.8	51.2
04:55 AM - 05:00 AM	54.0	57.2	52.9
05:00 AM - 05:05 AM	54.9	65.4	51.4
05:05 AM - 05:10 AM	54.2	59.2	52.9
05:10 AM - 05:15 AM	53.8	60.6	51.6
05:15 AM - 05:20 AM	55.0	65.3	52.7
05:20 AM - 05:25 AM	54.4	59.7	52.0
05:25 AM - 05:30 AM	54.3	59.7	52.7
05:30 AM - 05:35 AM	54.4	60.5	52.5
05:35 AM - 05:40 AM	55.1	62.6	51.3
05:40 AM - 05:45 AM	54.4	62.2	52.9
05:45 AM - 05:50 AM	55.9	72.3	53.4
05:50 AM - 05:55 AM	61.5	87.1	53.2
05:55 AM - 06:00 AM	54.6	62.0	52.8
06:00 AM - 07:00 AM	55.6	73.6	52.4
07:00 AM - 08:00 AM	57.9	78.8	55.0
08:00 AM - 09:00 AM	57.7	73.1	54.8

Reference Method :
1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากภาคประกอบกิจการโรงงาน พ.ศ. 2567

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957118-1

Sample No. 2432537-2
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.6	72.2	52.5
10:00 AM - 11:00 AM	58.8	100.1	52.7
11:00 AM - 12:00 PM	55.8	72.5	52.9
12:00 PM - 01:00 PM	55.5	71.5	52.4
01:00 PM - 02:00 PM	55.4	76.0	52.3
02:00 PM - 03:00 PM	55.9	72.6	53.1
03:00 PM - 04:00 PM	60.4	75.4	58.5
04:00 PM - 05:00 PM	55.3	71.7	51.9
05:00 PM - 06:00 PM	54.1	68.4	51.4
06:00 PM - 07:00 PM	54.4	70.1	51.4
07:00 PM - 08:00 PM	53.3	67.6	51.3
08:00 PM - 09:00 PM	54.0	77.3	51.5
09:00 PM - 10:00 PM	53.2	69.4	51.6
10:00 PM - 10:05 PM	52.8	57.1	51.7
10:05 PM - 10:10 PM	52.5	59.1	51.3
10:10 PM - 10:15 PM	53.0	61.0	51.5
10:15 PM - 10:20 PM	52.2	56.9	51.0
10:20 PM - 10:25 PM	52.6	56.2	51.3
10:25 PM - 10:30 PM	53.3	64.6	51.3
10:30 PM - 10:35 PM	52.0	55.3	51.0
10:35 PM - 10:40 PM	52.5	57.0	51.3
10:40 PM - 10:45 PM	51.8	55.5	50.9
10:45 PM - 10:50 PM	51.8	55.0	50.9
10:50 PM - 10:55 PM	52.1	55.7	50.8
10:55 PM - 11:00 PM	52.4	64.0	50.9
11:00 PM - 11:05 PM	52.4	66.7	50.8
11:05 PM - 11:10 PM	52.0	58.8	50.9
11:10 PM - 11:15 PM	52.5	60.0	51.0
11:15 PM - 11:20 PM	52.0	56.5	51.0
11:20 PM - 11:25 PM	51.8	57.7	50.8
11:25 PM - 11:30 PM	51.9	55.8	51.0
11:30 PM - 11:35 PM	53.2	65.2	51.0
11:35 PM - 11:40 PM	52.2	55.2	51.0
11:40 PM - 11:45 PM	51.8	60.1	50.7
11:45 PM - 11:50 PM	51.8	62.1	50.5
11:50 PM - 11:55 PM	52.0	58.1	50.7
11:55 PM - 12:00 AM	52.2	63.3	50.6
12:00 AM - 12:05 AM	51.8	60.5	50.4
12:05 AM - 12:10 AM	51.5	54.6	50.5
12:10 AM - 12:15 AM	51.7	56.0	50.6

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957118-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432537-2
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	52.9	55.7	51.4
12:20 AM - 12:25 AM	51.9	56.2	50.8
12:25 AM - 12:30 AM	51.9	56.7	50.6
12:30 AM - 12:35 AM	51.5	53.6	50.7
12:35 AM - 12:40 AM	52.9	61.9	51.2
12:40 AM - 12:45 AM	51.9	57.5	50.8
12:45 AM - 12:50 AM	52.4	57.8	51.0
12:50 AM - 12:55 AM	52.2	56.4	51.1
12:55 AM - 01:00 AM	52.2	55.6	51.0
01:00 AM - 01:05 AM	51.7	55.9	50.7
01:05 AM - 01:10 AM	52.5	62.9	51.1
01:10 AM - 01:15 AM	52.7	59.0	51.2
01:15 AM - 01:20 AM	52.5	56.2	51.3
01:20 AM - 01:25 AM	52.1	60.9	50.8
01:25 AM - 01:30 AM	54.3	65.0	51.3
01:30 AM - 01:35 AM	52.9	59.4	51.3
01:35 AM - 01:40 AM	52.1	59.3	50.8
01:40 AM - 01:45 AM	52.9	59.1	51.1
01:45 AM - 01:50 AM	52.3	58.8	50.9
01:50 AM - 01:55 AM	52.0	57.1	50.6
01:55 AM - 02:00 AM	52.2	56.3	51.0
02:00 AM - 02:05 AM	53.0	58.2	51.4
02:05 AM - 02:10 AM	53.9	69.9	51.3
02:10 AM - 02:15 AM	57.3	75.5	51.3
02:15 AM - 02:20 AM	54.1	66.7	51.0
02:20 AM - 02:25 AM	54.3	60.3	51.6
02:25 AM - 02:30 AM	53.8	59.8	51.5
02:30 AM - 02:35 AM	53.2	60.3	51.0
02:35 AM - 02:40 AM	53.6	62.4	51.8
02:40 AM - 02:45 AM	54.3	58.4	52.4
02:45 AM - 02:50 AM	54.0	58.0	51.6
02:50 AM - 02:55 AM	53.8	59.9	51.9
02:55 AM - 03:00 AM	59.6	70.0	52.9
03:00 AM - 03:05 AM	65.3	67.5	63.0
03:05 AM - 03:10 AM	59.3	66.2	55.5
03:10 AM - 03:15 AM	57.3	67.5	53.9
03:15 AM - 03:20 AM	55.8	67.9	53.1
03:20 AM - 03:25 AM	56.8	71.4	52.5
03:25 AM - 03:30 AM	55.2	62.3	53.0
03:30 AM - 03:35 AM	60.8	81.8	53.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957118-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432537-2
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	55.0	60.9	52.4
03:40 AM - 03:45 AM	56.2	68.2	52.7
03:45 AM - 03:50 AM	55.9	63.5	53.0
03:50 AM - 03:55 AM	56.3	66.0	53.4
03:55 AM - 04:00 AM	56.7	69.0	53.4
04:00 AM - 04:05 AM	57.7	71.9	53.4
04:05 AM - 04:10 AM	56.6	63.9	54.2
04:10 AM - 04:15 AM	56.4	62.5	54.3
04:15 AM - 04:20 AM	56.9	65.8	53.8
04:20 AM - 04:25 AM	57.1	62.8	54.9
04:25 AM - 04:30 AM	57.4	66.4	54.1
04:30 AM - 04:35 AM	58.7	72.2	55.4
04:35 AM - 04:40 AM	56.9	71.5	54.7
04:40 AM - 04:45 AM	57.0	64.4	54.5
04:45 AM - 04:50 AM	57.4	67.1	54.0
04:50 AM - 04:55 AM	58.0	67.1	55.0
04:55 AM - 05:00 AM	57.6	67.2	54.6
05:00 AM - 05:05 AM	56.7	63.2	54.5
05:05 AM - 05:10 AM	57.3	66.9	54.2
05:10 AM - 05:15 AM	57.3	70.5	53.8
05:15 AM - 05:20 AM	54.9	62.4	53.0
05:20 AM - 05:25 AM	55.3	61.4	52.8
05:25 AM - 05:30 AM	55.8	66.2	53.5
05:30 AM - 05:35 AM	55.7	62.1	53.0
05:35 AM - 05:40 AM	55.7	64.1	52.9
05:40 AM - 05:45 AM	55.4	62.6	53.2
05:45 AM - 05:50 AM	56.5	67.3	53.0
05:50 AM - 05:55 AM	54.4	64.0	52.2
05:55 AM - 06:00 AM	56.5	64.7	53.9
06:00 AM - 07:00 AM	55.6	72.4	52.5
07:00 AM - 08:00 AM	55.3	71.4	52.2
08:00 AM - 09:00 AM	54.9	74.4	52.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดเสียงและการขนาน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957119-1

Sample No. 2432537-3
Parameter Noise
Location หมู่บ้านหนอง (ถนนพหลโยธิน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.4	76.9	54.1
10:00 AM - 11:00 AM	56.8	74.1	54.1
11:00 AM - 12:00 PM	56.7	69.7	53.9
12:00 PM - 01:00 PM	57.0	72.7	54.4
01:00 PM - 02:00 PM	57.2	73.3	54.5
02:00 PM - 03:00 PM	56.7	68.2	54.3
03:00 PM - 04:00 PM	56.4	80.2	54.0
04:00 PM - 05:00 PM	58.1	73.0	55.6
05:00 PM - 06:00 PM	56.6	73.9	54.7
06:00 PM - 07:00 PM	56.3	71.4	54.2
07:00 PM - 08:00 PM	54.2	77.6	52.3
08:00 PM - 09:00 PM	55.7	74.4	53.4
09:00 PM - 10:00 PM	55.5	68.1	53.4
10:00 PM - 10:05 PM	55.0	59.4	52.8
10:05 PM - 10:10 PM	55.3	62.7	53.9
10:10 PM - 10:15 PM	55.4	61.5	52.7
10:15 PM - 10:20 PM	54.4	58.9	53.1
10:20 PM - 10:25 PM	55.4	58.4	53.6
10:25 PM - 10:30 PM	54.8	57.5	53.3
10:30 PM - 10:35 PM	55.1	58.1	53.8
10:35 PM - 10:40 PM	55.3	63.7	53.5
10:40 PM - 10:45 PM	55.3	60.2	53.6
10:45 PM - 10:50 PM	54.7	59.8	53.1
10:50 PM - 10:55 PM	54.2	57.5	52.3
10:55 PM - 11:00 PM	55.0	60.2	53.8
11:00 PM - 11:05 PM	54.1	58.1	52.9
11:05 PM - 11:10 PM	53.8	66.7	52.1
11:10 PM - 11:15 PM	53.9	57.1	53.1
11:15 PM - 11:20 PM	54.8	61.0	53.3
11:20 PM - 11:25 PM	54.6	64.5	53.6
11:25 PM - 11:30 PM	54.5	59.3	53.0
11:30 PM - 11:35 PM	54.3	57.3	52.6
11:35 PM - 11:40 PM	54.5	57.0	53.0
11:40 PM - 11:45 PM	54.5	60.6	53.1
11:45 PM - 11:50 PM	55.2	61.2	53.9
11:50 PM - 11:55 PM	55.0	65.3	53.4
11:55 PM - 12:00 AM	54.6	60.7	52.7
12:00 AM - 12:05 AM	53.2	57.1	51.7
12:05 AM - 12:10 AM	54.2	56.7	52.8
12:10 AM - 12:15 AM	55.2	57.6	54.0

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957119-1

Sample No. 2432537-3
Parameter Noise
Location หมู่บ้านหนอง (ถนนพหลโยธิน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	53.8	56.5	51.8
12:20 AM - 12:25 AM	53.5	62.5	51.9
12:25 AM - 12:30 AM	54.5	58.0	53.3
12:30 AM - 12:35 AM	54.5	59.7	53.5
12:35 AM - 12:40 AM	54.4	58.3	53.3
12:40 AM - 12:45 AM	55.0	64.5	53.7
12:45 AM - 12:50 AM	54.2	64.2	52.9
12:50 AM - 12:55 AM	55.0	62.5	53.3
12:55 AM - 01:00 AM	56.5	66.8	54.4
01:00 AM - 01:05 AM	56.3	75.8	52.1
01:05 AM - 01:10 AM	53.7	57.8	52.9
01:10 AM - 01:15 AM	54.4	59.7	52.7
01:15 AM - 01:20 AM	54.7	60.6	53.1
01:20 AM - 01:25 AM	54.5	60.9	53.4
01:25 AM - 01:30 AM	54.4	67.6	52.1
01:30 AM - 01:35 AM	54.0	57.1	51.6
01:35 AM - 01:40 AM	54.5	62.7	52.5
01:40 AM - 01:45 AM	54.0	58.5	51.0
01:45 AM - 01:50 AM	54.5	60.2	52.5
01:50 AM - 01:55 AM	54.7	59.5	52.6
01:55 AM - 02:00 AM	55.0	61.2	54.1
02:00 AM - 02:05 AM	54.7	61.5	52.3
02:05 AM - 02:10 AM	54.4	58.9	52.4
02:10 AM - 02:15 AM	54.4	59.4	51.3
02:15 AM - 02:20 AM	54.8	58.0	52.8
02:20 AM - 02:25 AM	55.0	59.2	53.0
02:25 AM - 02:30 AM	54.8	60.5	52.2
02:30 AM - 02:35 AM	55.4	61.8	53.5
02:35 AM - 02:40 AM	55.9	61.0	53.3
02:40 AM - 02:45 AM	55.4	59.0	54.2
02:45 AM - 02:50 AM	55.5	59.8	53.0
02:50 AM - 02:55 AM	54.9	59.3	53.4
02:55 AM - 03:00 AM	55.1	59.9	53.5
03:00 AM - 03:05 AM	55.5	64.1	53.9
03:05 AM - 03:10 AM	55.1	59.2	53.1
03:10 AM - 03:15 AM	54.9	60.0	51.8
03:15 AM - 03:20 AM	55.8	60.6	54.5
03:20 AM - 03:25 AM	57.1	70.9	54.0
03:25 AM - 03:30 AM	56.5	64.4	55.0
03:30 AM - 03:35 AM	55.8	60.0	51.5

Page 2 of 3

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957119-1

Sample No. 2432537-3
Parameter Noise
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	53.6	59.3	51.1
03:40 AM - 03:45 AM	55.8	60.6	54.5
03:45 AM - 03:50 AM	57.8	78.4	55.2
03:50 AM - 03:55 AM	56.1	63.1	54.6
03:55 AM - 04:00 AM	56.5	69.7	54.4
04:00 AM - 04:05 AM	56.9	75.1	54.2
04:05 AM - 04:10 AM	56.4	64.0	54.1
04:10 AM - 04:15 AM	56.5	65.6	53.8
04:15 AM - 04:20 AM	57.4	67.1	54.1
04:20 AM - 04:25 AM	56.6	64.5	54.6
04:25 AM - 04:30 AM	56.6	65.4	54.5
04:30 AM - 04:35 AM	57.0	63.9	54.3
04:35 AM - 04:40 AM	56.8	67.3	53.8
04:40 AM - 04:45 AM	57.8	66.5	54.6
04:45 AM - 04:50 AM	57.9	69.8	55.1
04:50 AM - 04:55 AM	57.3	67.2	54.7
04:55 AM - 05:00 AM	58.2	66.9	55.3
05:00 AM - 05:05 AM	58.5	68.6	56.9
05:05 AM - 05:10 AM	58.1	65.3	56.0
05:10 AM - 05:15 AM	57.5	65.1	55.4
05:15 AM - 05:20 AM	57.9	68.3	55.6
05:20 AM - 05:25 AM	58.1	66.6	55.3
05:25 AM - 05:30 AM	58.6	65.9	56.3
05:30 AM - 05:35 AM	58.1	65.3	55.8
05:35 AM - 05:40 AM	58.3	67.5	55.3
05:40 AM - 05:45 AM	59.1	70.8	55.1
05:45 AM - 05:50 AM	58.6	73.8	55.1
05:50 AM - 05:55 AM	56.6	62.8	53.9
05:55 AM - 06:00 AM	56.6	61.5	54.8
06:00 AM - 07:00 AM	56.9	71.6	54.3
07:00 AM - 08:00 AM	56.4	77.6	53.3
08:00 AM - 09:00 AM	55.4	75.7	53.3

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957120-1

Sample No. 2432537-4
Parameter Noise
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.4	73.3	52.1
10:00 AM - 11:00 AM	55.6	71.0	52.3
11:00 AM - 12:00 PM	55.5	75.3	52.2
12:00 PM - 01:00 PM	55.4	70.6	52.5
01:00 PM - 02:00 PM	54.6	70.1	51.4
02:00 PM - 03:00 PM	54.9	73.6	51.9
03:00 PM - 04:00 PM	57.0	72.9	53.5
04:00 PM - 05:00 PM	56.0	78.2	53.0
05:00 PM - 06:00 PM	60.0	81.8	57.2
06:00 PM - 07:00 PM	55.2	77.5	51.8
07:00 PM - 08:00 PM	54.6	72.8	51.2
08:00 PM - 09:00 PM	53.3	74.4	50.9
09:00 PM - 10:00 PM	52.7	70.3	50.6
10:00 PM - 10:05 PM	52.7	65.6	49.6
10:05 PM - 10:10 PM	51.7	60.8	50.3
10:10 PM - 10:15 PM	52.0	57.5	50.8
10:15 PM - 10:20 PM	51.7	59.1	49.8
10:20 PM - 10:25 PM	52.8	63.2	51.2
10:25 PM - 10:30 PM	52.2	58.3	50.4
10:30 PM - 10:35 PM	51.7	56.6	50.2
10:35 PM - 10:40 PM	54.0	68.7	49.7
10:40 PM - 10:45 PM	53.9	67.4	50.3
10:45 PM - 10:50 PM	51.2	60.2	49.5
10:50 PM - 10:55 PM	51.9	64.0	49.8
10:55 PM - 11:00 PM	52.6	63.0	50.5
11:00 PM - 11:05 PM	56.2	71.0	50.7
11:05 PM - 11:10 PM	51.9	59.9	50.8
11:10 PM - 11:15 PM	52.0	59.9	50.5
11:15 PM - 11:20 PM	52.8	68.1	50.7
11:20 PM - 11:25 PM	52.7	64.9	50.2
11:25 PM - 11:30 PM	53.5	68.4	50.6
11:30 PM - 11:35 PM	53.7	64.4	50.9
11:35 PM - 11:40 PM	52.1	63.0	50.6
11:40 PM - 11:45 PM	51.9	63.3	50.2
11:45 PM - 11:50 PM	53.6	64.8	50.4
11:50 PM - 11:55 PM	52.0	58.8	51.0
11:55 PM - 12:00 AM	52.1	65.7	50.6
12:00 AM - 12:05 AM	52.2	58.3	51.0
12:05 AM - 12:10 AM	52.7	64.8	50.8
12:10 AM - 12:15 AM	51.5	55.7	50.7

The above results are valid only for the analysis/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957120-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432537-4
Parameter : Noise
Location : หมู่บ้านพลุด (เนินพลูดง) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date : Apr 05 - 06, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	52.3	60.2	49.3
12:20 AM - 12:25 AM	51.3	55.8	50.3
12:25 AM - 12:30 AM	51.8	66.9	49.8
12:30 AM - 12:35 AM	59.0	78.1	50.2
12:35 AM - 12:40 AM	56.2	68.7	51.0
12:40 AM - 12:45 AM	55.2	71.5	50.7
12:45 AM - 12:50 AM	53.7	66.7	50.0
12:50 AM - 12:55 AM	52.2	65.8	50.7
12:55 AM - 01:00 AM	52.0	64.1	50.3
01:00 AM - 01:05 AM	52.6	63.0	50.8
01:05 AM - 01:10 AM	54.1	65.0	50.8
01:10 AM - 01:15 AM	51.7	63.8	49.8
01:15 AM - 01:20 AM	51.5	61.7	50.5
01:20 AM - 01:25 AM	52.8	64.5	50.3
01:25 AM - 01:30 AM	51.1	57.9	49.9
01:30 AM - 01:35 AM	51.8	59.1	50.4
01:35 AM - 01:40 AM	52.1	60.1	50.7
01:40 AM - 01:45 AM	51.6	57.6	50.4
01:45 AM - 01:50 AM	51.6	58.2	50.2
01:50 AM - 01:55 AM	51.4	59.9	49.9
01:55 AM - 02:00 AM	50.9	55.5	49.9
02:00 AM - 02:05 AM	51.8	63.5	50.0
02:05 AM - 02:10 AM	50.3	54.3	49.5
02:10 AM - 02:15 AM	50.7	62.7	49.4
02:15 AM - 02:20 AM	51.4	60.0	49.7
02:20 AM - 02:25 AM	51.0	57.7	49.7
02:25 AM - 02:30 AM	52.1	71.6	50.4
02:30 AM - 02:35 AM	51.7	58.5	49.8
02:35 AM - 02:40 AM	50.7	63.6	49.6
02:40 AM - 02:45 AM	50.8	54.4	49.8
02:45 AM - 02:50 AM	51.6	58.8	50.4
02:50 AM - 02:55 AM	51.8	62.8	49.8
02:55 AM - 03:00 AM	52.4	64.1	49.8
03:00 AM - 03:05 AM	51.7	58.5	50.1
03:05 AM - 03:10 AM	51.6	59.8	50.0
03:10 AM - 03:15 AM	51.1	56.7	49.6
03:15 AM - 03:20 AM	51.6	57.0	50.6
03:20 AM - 03:25 AM	51.8	60.6	50.1
03:25 AM - 03:30 AM	52.3	63.8	49.9
03:30 AM - 03:35 AM	52.3	63.4	49.6

Page 2 of 3

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957120-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. : 2432537-4
Parameter : Noise
Location : หมู่บ้านพลุด (เนินพลูดง) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date : Apr 05 - 06, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	51.4	58.2	49.7
03:40 AM - 03:45 AM	51.6	60.1	49.7
03:45 AM - 03:50 AM	51.4	61.1	49.6
03:50 AM - 03:55 AM	51.7	59.9	49.5
03:55 AM - 04:00 AM	51.8	60.5	49.6
04:00 AM - 04:05 AM	52.7	62.5	49.9
04:05 AM - 04:10 AM	53.8	63.6	50.8
04:10 AM - 04:15 AM	52.0	55.7	51.4
04:15 AM - 04:20 AM	53.2	59.2	50.5
04:20 AM - 04:25 AM	52.8	61.1	49.8
04:25 AM - 04:30 AM	52.4	64.1	49.8
04:30 AM - 04:35 AM	61.3	72.4	58.6
04:35 AM - 04:40 AM	63.1	72.6	58.2
04:40 AM - 04:45 AM	55.3	68.2	51.5
04:45 AM - 04:50 AM	53.8	62.2	51.1
04:50 AM - 04:55 AM	53.6	69.2	51.1
04:55 AM - 05:00 AM	54.3	66.1	51.5
05:00 AM - 05:05 AM	53.5	64.3	51.2
05:05 AM - 05:10 AM	53.7	62.9	51.3
05:10 AM - 05:15 AM	55.6	64.0	52.4
05:15 AM - 05:20 AM	57.0	78.8	52.2
05:20 AM - 05:25 AM	54.8	64.2	52.0
05:25 AM - 05:30 AM	54.6	62.6	51.6
05:30 AM - 05:35 AM	55.4	62.8	51.0
05:35 AM - 05:40 AM	55.7	68.9	52.1
05:40 AM - 05:45 AM	56.8	68.0	52.3
05:45 AM - 05:50 AM	55.7	63.9	52.2
05:50 AM - 05:55 AM	55.6	65.1	52.5
05:55 AM - 06:00 AM	56.3	67.0	52.6
06:00 AM - 07:00 AM	56.4	72.6	52.6
07:00 AM - 08:00 AM	55.7	78.5	51.7
08:00 AM - 09:00 AM	55.3	87.1	51.6

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957121-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432537-5
Parameter Noise
Location ทุ่งป่าหมากหญ้า (ถนนพหลโยธิน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.1	69.9	52.9
10:00 AM - 11:00 AM	55.9	67.3	52.7
11:00 AM - 12:00 PM	56.0	69.5	53.0
12:00 PM - 01:00 PM	56.4	72.9	53.4
01:00 PM - 02:00 PM	55.7	72.3	53.1
02:00 PM - 03:00 PM	56.6	71.4	53.6
03:00 PM - 04:00 PM	56.4	74.0	53.5
04:00 PM - 05:00 PM	60.0	74.0	57.8
05:00 PM - 06:00 PM	55.3	72.6	52.7
06:00 PM - 07:00 PM	54.5	69.9	52.4
07:00 PM - 08:00 PM	54.6	71.0	52.3
08:00 PM - 09:00 PM	54.7	71.1	52.6
09:00 PM - 10:00 PM	54.0	72.1	52.0
10:00 PM - 10:05 PM	53.7	59.0	52.3
10:05 PM - 10:10 PM	54.5	62.9	52.2
10:10 PM - 10:15 PM	55.4	68.5	52.7
10:15 PM - 10:20 PM	53.4	57.1	52.2
10:20 PM - 10:25 PM	53.4	58.3	52.1
10:25 PM - 10:30 PM	53.4	59.2	52.1
10:30 PM - 10:35 PM	55.6	72.5	52.2
10:35 PM - 10:40 PM	53.2	61.7	52.2
10:40 PM - 10:45 PM	54.1	64.6	52.0
10:45 PM - 10:50 PM	52.9	55.7	51.8
10:50 PM - 10:55 PM	54.3	60.9	52.5
10:55 PM - 11:00 PM	53.5	57.1	52.0
11:00 PM - 11:05 PM	53.5	56.7	52.2
11:05 PM - 11:10 PM	53.2	58.5	51.8
11:10 PM - 11:15 PM	53.6	59.1	52.1
11:15 PM - 11:20 PM	53.6	61.7	52.1
11:20 PM - 11:25 PM	53.0	56.2	52.1
11:25 PM - 11:30 PM	53.2	57.6	51.8
11:30 PM - 11:35 PM	53.5	56.9	52.0
11:35 PM - 11:40 PM	52.6	55.8	51.0
11:40 PM - 11:45 PM	54.1	58.9	52.8
11:45 PM - 11:50 PM	53.4	57.8	51.9
11:50 PM - 11:55 PM	53.8	57.9	52.2
11:55 PM - 12:00 AM	53.9	64.4	52.1
12:00 AM - 12:05 AM	54.0	59.8	52.2
12:05 AM - 12:10 AM	52.3	55.6	51.3
12:10 AM - 12:15 AM	54.1	61.8	52.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957121-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432537-5
Parameter Noise
Location ทุ่งป่าหมากหญ้า (ถนนพหลโยธิน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	53.6	56.4	51.9
12:20 AM - 12:25 AM	54.7	64.2	52.5
12:25 AM - 12:30 AM	52.6	59.8	51.6
12:30 AM - 12:35 AM	53.3	59.5	51.5
12:35 AM - 12:40 AM	54.8	63.8	52.3
12:40 AM - 12:45 AM	54.2	66.4	52.2
12:45 AM - 12:50 AM	53.7	57.8	51.9
12:50 AM - 12:55 AM	53.2	57.3	51.5
12:55 AM - 01:00 AM	54.0	57.0	52.2
01:00 AM - 01:05 AM	55.7	70.3	50.6
01:05 AM - 01:10 AM	54.4	60.7	52.2
01:10 AM - 01:15 AM	53.1	61.9	51.3
01:15 AM - 01:20 AM	52.9	59.0	51.4
01:20 AM - 01:25 AM	53.3	58.9	51.7
01:25 AM - 01:30 AM	54.2	57.4	52.4
01:30 AM - 01:35 AM	53.6	57.3	52.1
01:35 AM - 01:40 AM	54.7	69.3	52.5
01:40 AM - 01:45 AM	53.2	55.8	52.0
01:45 AM - 01:50 AM	55.0	62.4	53.1
01:50 AM - 01:55 AM	53.9	65.0	51.3
01:55 AM - 02:00 AM	54.8	58.9	53.5
02:00 AM - 02:05 AM	54.2	63.7	52.3
02:05 AM - 02:10 AM	54.2	62.1	52.7
02:10 AM - 02:15 AM	53.9	58.9	52.5
02:15 AM - 02:20 AM	54.7	59.6	53.3
02:20 AM - 02:25 AM	54.6	61.5	52.8
02:25 AM - 02:30 AM	54.3	60.0	52.5
02:30 AM - 02:35 AM	54.7	67.5	51.6
02:35 AM - 02:40 AM	54.4	59.6	52.2
02:40 AM - 02:45 AM	54.7	63.0	52.8
02:45 AM - 02:50 AM	54.0	58.8	51.9
02:50 AM - 02:55 AM	54.8	62.0	52.7
02:55 AM - 03:00 AM	54.8	61.0	52.6
03:00 AM - 03:05 AM	56.0	67.6	53.7
03:05 AM - 03:10 AM	55.3	66.7	52.3
03:10 AM - 03:15 AM	54.3	60.0	52.5
03:15 AM - 03:20 AM	63.1	65.8	60.3
03:20 AM - 03:25 AM	54.8	62.0	52.7
03:25 AM - 03:30 AM	62.6	65.9	60.6
03:30 AM - 03:35 AM	55.1	60.4	53.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957121-1

Sample No. 2432537-5
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	54.9	61.2	52.8
03:40 AM - 03:45 AM	56.0	64.9	54.0
03:45 AM - 03:50 AM	56.2	66.6	53.1
03:50 AM - 03:55 AM	55.9	66.5	53.0
03:55 AM - 04:00 AM	56.6	70.7	53.7
04:00 AM - 04:05 AM	56.1	69.4	53.9
04:05 AM - 04:10 AM	55.2	73.8	52.9
04:10 AM - 04:15 AM	55.0	59.2	52.7
04:15 AM - 04:20 AM	56.6	67.9	53.6
04:20 AM - 04:25 AM	56.5	67.2	53.3
04:25 AM - 04:30 AM	54.9	62.5	52.7
04:30 AM - 04:35 AM	55.6	65.1	53.1
04:35 AM - 04:40 AM	56.7	67.9	53.3
04:40 AM - 04:45 AM	57.7	72.1	53.6
04:45 AM - 04:50 AM	56.3	64.1	53.1
04:50 AM - 04:55 AM	57.2	70.1	53.4
04:55 AM - 05:00 AM	56.2	65.0	53.2
05:00 AM - 05:05 AM	56.4	66.7	54.6
05:05 AM - 05:10 AM	55.3	61.1	53.3
05:10 AM - 05:15 AM	56.2	62.2	53.4
05:15 AM - 05:20 AM	55.9	62.3	53.4
05:20 AM - 05:25 AM	56.1	67.9	53.2
05:25 AM - 05:30 AM	55.6	66.4	53.2
05:30 AM - 05:35 AM	56.8	64.1	53.4
05:35 AM - 05:40 AM	56.8	62.5	54.1
05:40 AM - 05:45 AM	55.7	61.4	53.4
05:45 AM - 05:50 AM	55.8	62.8	53.7
05:50 AM - 05:55 AM	55.3	61.8	53.3
05:55 AM - 06:00 AM	56.3	68.7	53.2
06:00 AM - 07:00 AM	56.1	72.6	53.6
07:00 AM - 08:00 AM	56.2	69.1	53.5
08:00 AM - 09:00 AM	55.0	72.6	52.6

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957122-1

Sample No. 2432537-6
Parameter Noise
Location หมู่บ้านพหลุ (เนินพหลุ) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.8	71.9	51.5
10:00 AM - 11:00 AM	56.3	75.3	51.6
11:00 AM - 12:00 PM	55.8	74.3	51.2
12:00 PM - 01:00 PM	55.2	69.5	51.2
01:00 PM - 02:00 PM	55.9	72.6	51.6
02:00 PM - 03:00 PM	55.9	72.5	51.1
03:00 PM - 04:00 PM	57.1	72.5	52.5
04:00 PM - 05:00 PM	56.3	72.4	52.4
05:00 PM - 06:00 PM	57.4	70.8	53.0
06:00 PM - 07:00 PM	54.9	68.2	51.0
07:00 PM - 08:00 PM	54.0	69.1	50.4
08:00 PM - 09:00 PM	53.4	71.3	49.7
09:00 PM - 10:00 PM	53.2	78.4	49.7
10:00 PM - 10:05 PM	53.4	64.0	50.2
10:05 PM - 10:10 PM	52.5	61.3	48.3
10:10 PM - 10:15 PM	53.0	68.6	50.2
10:15 PM - 10:20 PM	51.4	58.9	48.2
10:20 PM - 10:25 PM	55.1	72.7	50.2
10:25 PM - 10:30 PM	52.4	62.0	48.3
10:30 PM - 10:35 PM	54.0	65.9	50.1
10:35 PM - 10:40 PM	52.3	64.4	48.2
10:40 PM - 10:45 PM	51.7	60.1	49.8
10:45 PM - 10:50 PM	55.0	70.1	48.8
10:50 PM - 10:55 PM	51.6	60.8	49.8
10:55 PM - 11:00 PM	51.5	58.6	48.0
11:00 PM - 11:05 PM	51.5	57.1	49.7
11:05 PM - 11:10 PM	51.8	61.5	47.8
11:10 PM - 11:15 PM	54.5	70.2	49.7
11:15 PM - 11:20 PM	52.1	62.6	48.8
11:20 PM - 11:25 PM	51.2	61.7	49.7
11:25 PM - 11:30 PM	51.4	60.0	48.4
11:30 PM - 11:35 PM	52.3	59.3	50.4
11:35 PM - 11:40 PM	49.5	56.6	47.0
11:40 PM - 11:45 PM	50.4	58.6	48.0
11:45 PM - 11:50 PM	51.2	61.6	47.0
11:50 PM - 11:55 PM	50.5	54.9	49.0
11:55 PM - 12:00 AM	51.0	63.1	48.0
12:00 AM - 12:05 AM	52.8	63.3	49.2
12:05 AM - 12:10 AM	50.4	57.9	48.6
12:10 AM - 12:15 AM	51.7	62.0	49.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957122-1

Sample No. 2432537-6
Parameter Noise
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	54.5	74.8	49.4
12:20 AM - 12:25 AM	50.9	58.7	49.4
12:25 AM - 12:30 AM	50.5	56.8	48.0
12:30 AM - 12:35 AM	50.7	58.9	49.2
12:35 AM - 12:40 AM	51.3	59.1	48.5
12:40 AM - 12:45 AM	50.8	60.1	49.7
12:45 AM - 12:50 AM	51.2	62.7	48.1
12:50 AM - 12:55 AM	52.2	63.5	50.0
12:55 AM - 01:00 AM	51.1	58.3	48.6
01:00 AM - 01:05 AM	51.0	58.8	49.8
01:05 AM - 01:10 AM	51.7	61.5	49.0
01:10 AM - 01:15 AM	50.2	57.4	49.3
01:15 AM - 01:20 AM	50.3	57.7	48.2
01:20 AM - 01:25 AM	51.6	59.8	49.9
01:25 AM - 01:30 AM	50.9	62.1	47.8
01:30 AM - 01:35 AM	50.9	58.7	49.7
01:35 AM - 01:40 AM	50.5	58.0	48.1
01:40 AM - 01:45 AM	52.0	62.2	49.7
01:45 AM - 01:50 AM	51.9	63.6	47.9
01:50 AM - 01:55 AM	51.5	62.2	49.7
01:55 AM - 02:00 AM	50.6	60.3	47.7
02:00 AM - 02:05 AM	50.5	59.1	49.4
02:05 AM - 02:10 AM	51.3	61.6	48.1
02:10 AM - 02:15 AM	51.3	64.5	48.2
02:15 AM - 02:20 AM	50.6	58.4	49.4
02:20 AM - 02:25 AM	51.1	59.3	49.3
02:25 AM - 02:30 AM	52.4	64.1	49.5
02:30 AM - 02:35 AM	50.4	55.3	48.6
02:35 AM - 02:40 AM	52.4	67.8	49.6
02:40 AM - 02:45 AM	50.5	55.9	48.1
02:45 AM - 02:50 AM	51.8	58.1	50.1
02:50 AM - 02:55 AM	52.2	60.8	49.1
02:55 AM - 03:00 AM	53.1	62.5	50.0
03:00 AM - 03:05 AM	53.9	65.5	48.6
03:05 AM - 03:10 AM	52.1	60.5	50.3
03:10 AM - 03:15 AM	52.8	63.6	48.4
03:15 AM - 03:20 AM	52.3	63.0	50.0
03:20 AM - 03:25 AM	53.9	67.0	49.4
03:25 AM - 03:30 AM	53.1	59.9	50.5
03:30 AM - 03:35 AM	54.1	70.0	49.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or its data may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957122-1

Sample No. 2432537-6
Parameter Noise
Location หมู่บ้านหนอง (เนินพยอม) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	56.3	70.7	50.8
03:40 AM - 03:45 AM	53.7	63.0	50.0
03:45 AM - 03:50 AM	52.9	63.2	50.6
03:50 AM - 03:55 AM	52.7	61.1	49.1
03:55 AM - 04:00 AM	53.5	59.9	50.8
04:00 AM - 04:05 AM	55.3	68.6	51.2
04:05 AM - 04:10 AM	53.2	60.9	50.2
04:10 AM - 04:15 AM	53.8	61.2	50.3
04:15 AM - 04:20 AM	52.3	61.2	47.1
04:20 AM - 04:25 AM	51.1	58.0	48.7
04:25 AM - 04:30 AM	56.4	64.9	52.3
04:30 AM - 04:35 AM	55.8	75.0	52.6
04:35 AM - 04:40 AM	55.2	66.7	51.5
04:40 AM - 04:45 AM	55.6	65.7	51.8
04:45 AM - 04:50 AM	55.8	65.2	52.0
04:50 AM - 04:55 AM	59.4	68.8	56.2
04:55 AM - 05:00 AM	55.1	63.1	52.1
05:00 AM - 05:05 AM	59.8	77.3	53.1
05:05 AM - 05:10 AM	56.5	67.3	52.8
05:10 AM - 05:15 AM	59.3	78.9	54.2
05:15 AM - 05:20 AM	57.1	67.4	53.0
05:20 AM - 05:25 AM	56.1	66.1	52.0
05:25 AM - 05:30 AM	58.4	74.0	53.3
05:30 AM - 05:35 AM	58.1	69.9	53.8
05:35 AM - 05:40 AM	57.9	70.0	53.8
05:40 AM - 05:45 AM	58.4	68.4	54.2
05:45 AM - 05:50 AM	57.6	71.1	53.9
05:50 AM - 05:55 AM	57.3	64.5	54.4
05:55 AM - 06:00 AM	58.8	69.4	54.4
06:00 AM - 07:00 AM	57.9	77.5	53.1
07:00 AM - 08:00 AM	56.9	74.4	52.1
08:00 AM - 09:00 AM	55.5	75.3	50.4

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or its data may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957123-1

Sample No. 2432537-7
Parameter Noise
Location หมู่บ้านพหล (เบ็นทอน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.8	76.2	52.5
10:00 AM - 11:00 AM	54.7	77.5	51.4
11:00 AM - 12:00 PM	55.3	81.0	52.0
12:00 PM - 01:00 PM	55.2	72.0	51.6
01:00 PM - 02:00 PM	55.7	71.2	52.2
02:00 PM - 03:00 PM	55.9	83.5	52.6
03:00 PM - 04:00 PM	55.5	71.3	51.7
04:00 PM - 05:00 PM	56.3	72.3	53.1
05:00 PM - 06:00 PM	56.1	79.1	52.6
06:00 PM - 07:00 PM	57.5	71.1	52.9
07:00 PM - 08:00 PM	55.6	68.9	53.2
08:00 PM - 09:00 PM	54.7	73.7	51.8
09:00 PM - 10:00 PM	54.3	70.3	51.8
10:00 PM - 10:05 PM	53.4	62.3	50.9
10:05 PM - 10:10 PM	53.5	66.5	50.8
10:10 PM - 10:15 PM	53.3	62.9	50.9
10:15 PM - 10:20 PM	52.6	61.3	50.8
10:20 PM - 10:25 PM	51.8	56.3	50.4
10:25 PM - 10:30 PM	53.6	62.3	51.0
10:30 PM - 10:35 PM	52.7	65.2	50.3
10:35 PM - 10:40 PM	52.4	58.1	50.7
10:40 PM - 10:45 PM	55.2	69.8	52.6
10:45 PM - 10:50 PM	52.0	54.7	50.5
10:50 PM - 10:55 PM	52.2	58.8	50.5
10:55 PM - 11:00 PM	51.6	54.3	50.4
11:00 PM - 11:05 PM	51.6	61.5	50.5
11:05 PM - 11:10 PM	51.5	59.7	50.4
11:10 PM - 11:15 PM	51.3	57.1	50.3
11:15 PM - 11:20 PM	51.9	60.5	50.5
11:20 PM - 11:25 PM	51.4	56.9	50.4
11:25 PM - 11:30 PM	52.4	63.2	50.5
11:30 PM - 11:35 PM	53.6	59.1	51.3
11:35 PM - 11:40 PM	52.4	64.3	50.7
11:40 PM - 11:45 PM	52.3	58.5	51.2
11:45 PM - 11:50 PM	53.5	72.2	50.6
11:50 PM - 11:55 PM	53.2	57.5	50.8
11:55 PM - 12:00 AM	51.4	58.0	50.1
12:00 AM - 12:05 AM	53.0	61.1	50.7
12:05 AM - 12:10 AM	55.5	68.5	51.2
12:10 AM - 12:15 AM	52.1	62.9	50.7

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957123-1

Sample No. 2432537-7
Parameter Noise
Location หมู่บ้านพหล (เบ็นทอน) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	52.2	61.4	50.7
12:20 AM - 12:25 AM	54.1	64.5	51.9
12:25 AM - 12:30 AM	54.2	64.4	51.0
12:30 AM - 12:35 AM	53.5	60.6	50.9
12:35 AM - 12:40 AM	51.7	57.2	50.7
12:40 AM - 12:45 AM	53.7	65.5	50.7
12:45 AM - 12:50 AM	52.4	63.9	50.4
12:50 AM - 12:55 AM	52.1	55.6	50.1
12:55 AM - 01:00 AM	53.3	63.0	51.0
01:00 AM - 01:05 AM	52.4	63.2	48.6
01:05 AM - 01:10 AM	51.0	64.1	48.1
01:10 AM - 01:15 AM	49.6	54.6	48.2
01:15 AM - 01:20 AM	51.2	62.4	48.7
01:20 AM - 01:25 AM	51.0	63.0	49.4
01:25 AM - 01:30 AM	50.3	62.1	47.6
01:30 AM - 01:35 AM	51.0	60.5	48.5
01:35 AM - 01:40 AM	50.3	58.6	48.4
01:40 AM - 01:45 AM	51.3	64.0	49.1
01:45 AM - 01:50 AM	50.4	60.1	48.5
01:50 AM - 01:55 AM	51.9	69.2	49.7
01:55 AM - 02:00 AM	50.6	55.8	48.2
02:00 AM - 02:05 AM	49.8	58.4	48.3
02:05 AM - 02:10 AM	49.9	53.5	48.3
02:10 AM - 02:15 AM	55.5	73.0	49.1
02:15 AM - 02:20 AM	51.4	58.0	49.9
02:20 AM - 02:25 AM	50.2	56.7	48.5
02:25 AM - 02:30 AM	52.0	60.2	49.6
02:30 AM - 02:35 AM	51.1	59.1	48.1
02:35 AM - 02:40 AM	50.8	58.5	49.9
02:40 AM - 02:45 AM	51.3	63.9	49.2
02:45 AM - 02:50 AM	51.4	56.6	50.2
02:50 AM - 02:55 AM	50.8	60.3	48.5
02:55 AM - 03:00 AM	50.9	57.1	48.7
03:00 AM - 03:05 AM	50.0	53.5	48.1
03:05 AM - 03:10 AM	52.1	64.0	49.8
03:10 AM - 03:15 AM	51.0	57.1	48.9
03:15 AM - 03:20 AM	52.2	59.8	50.5
03:20 AM - 03:25 AM	51.5	62.0	48.8
03:25 AM - 03:30 AM	51.8	60.3	49.9
03:30 AM - 03:35 AM	51.9	61.4	48.7

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432537
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957123-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432537-7
Parameter Noise
Location หมู่บ้านพลุ (ฝั่งหนอง) (GPS 47P 0736523, 1411267) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120937

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	50.6	54.4	49.7
03:40 AM - 03:45 AM	51.6	61.2	48.2
03:45 AM - 03:50 AM	51.3	57.9	49.8
03:50 AM - 03:55 AM	51.4	59.7	48.8
03:55 AM - 04:00 AM	51.5	56.4	49.6
04:00 AM - 04:05 AM	51.7	60.0	49.1
04:05 AM - 04:10 AM	51.1	59.5	49.3
04:10 AM - 04:15 AM	52.4	65.4	49.9
04:15 AM - 04:20 AM	51.2	61.9	49.7
04:20 AM - 04:25 AM	51.5	61.6	49.1
04:25 AM - 04:30 AM	51.6	62.9	49.2
04:30 AM - 04:35 AM	51.9	60.9	48.9
04:35 AM - 04:40 AM	51.8	63.8	49.5
04:40 AM - 04:45 AM	50.8	59.1	49.1
04:45 AM - 04:50 AM	51.2	57.6	49.7
04:50 AM - 04:55 AM	53.7	67.1	49.6
04:55 AM - 05:00 AM	55.2	68.7	50.0
05:00 AM - 05:05 AM	54.5	59.6	53.0
05:05 AM - 05:10 AM	53.8	58.2	51.5
05:10 AM - 05:15 AM	54.4	58.6	52.0
05:15 AM - 05:20 AM	54.3	63.3	51.4
05:20 AM - 05:25 AM	54.9	62.9	52.6
05:25 AM - 05:30 AM	52.5	58.9	49.6
05:30 AM - 05:35 AM	53.2	61.6	50.0
05:35 AM - 05:40 AM	52.9	62.2	49.2
05:40 AM - 05:45 AM	56.8	62.5	54.4
05:45 AM - 05:50 AM	55.4	65.6	52.6
05:50 AM - 05:55 AM	54.8	59.5	52.8
05:55 AM - 06:00 AM	55.3	65.6	53.1
06:00 AM - 07:00 AM	57.9	86.6	54.3
07:00 AM - 08:00 AM	57.4	74.9	54.4
08:00 AM - 09:00 AM	55.4	68.3	52.6

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดเสียงเพื่อการรายงาน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964025-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432543-1
Parameter Noise
Location หมู่บ้านพลุ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.8	71.5	40.9
11:00 AM - 12:00 PM	47.6	68.4	41.8
12:00 PM - 01:00 PM	48.9	70.1	41.6
01:00 PM - 02:00 PM	48.0	73.6	40.4
02:00 PM - 03:00 PM	51.2	82.6	41.4
03:00 PM - 04:00 PM	48.8	76.5	41.5
04:00 PM - 05:00 PM	53.1	82.7	44.3
05:00 PM - 06:00 PM	48.9	69.6	44.0
06:00 PM - 07:00 PM	51.3	68.1	48.4
07:00 PM - 08:00 PM	48.6	64.2	43.6
08:00 PM - 09:00 PM	44.2	60.4	41.3
09:00 PM - 10:00 PM	44.9	63.7	41.0
10:00 PM - 10:05 PM	45.0	58.1	40.5
10:05 PM - 10:10 PM	43.3	52.0	39.8
10:10 PM - 10:15 PM	43.5	51.9	40.9
10:15 PM - 10:20 PM	43.8	57.2	41.1
10:20 PM - 10:25 PM	44.1	54.4	40.8
10:25 PM - 10:30 PM	43.6	52.0	40.4
10:30 PM - 10:35 PM	43.7	52.3	40.7
10:35 PM - 10:40 PM	42.8	48.0	40.5
10:40 PM - 10:45 PM	43.2	52.1	40.6
10:45 PM - 10:50 PM	42.3	52.2	40.4
10:50 PM - 10:55 PM	43.1	54.2	40.9
10:55 PM - 11:00 PM	56.9	64.7	41.4
11:00 PM - 11:05 PM	53.8	64.1	40.1
11:05 PM - 11:10 PM	41.4	55.3	39.8
11:10 PM - 11:15 PM	41.3	55.0	39.5
11:15 PM - 11:20 PM	40.9	46.2	39.6
11:20 PM - 11:25 PM	42.6	54.2	39.8
11:25 PM - 11:30 PM	42.7	53.6	39.5
11:30 PM - 11:35 PM	40.6	54.0	39.1
11:35 PM - 11:40 PM	52.0	63.4	40.1
11:40 PM - 11:45 PM	52.4	56.2	49.9
11:45 PM - 11:50 PM	43.7	52.1	40.7
11:50 PM - 11:55 PM	41.7	55.5	39.8
11:55 PM - 12:00 AM	41.0	45.7	39.8
12:00 AM - 12:05 AM	41.5	51.8	39.5
12:05 AM - 12:10 AM	41.0	47.1	39.7
12:10 AM - 12:15 AM	41.9	51.0	39.4
12:15 AM - 12:20 AM	40.6	49.0	39.4

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964025-1

Sample No. 2432543-1
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	42.3	54.6	39.2
12:25 AM - 12:30 AM	40.7	48.7	38.8
12:30 AM - 12:35 AM	41.6	50.9	39.4
12:35 AM - 12:40 AM	41.8	49.2	39.1
12:40 AM - 12:45 AM	44.0	51.3	39.1
12:45 AM - 12:50 AM	43.9	51.3	40.2
12:50 AM - 12:55 AM	42.4	53.9	40.0
12:55 AM - 01:00 AM	41.1	49.0	39.3
01:00 AM - 01:05 AM	41.6	47.5	39.3
01:05 AM - 01:10 AM	41.1	46.7	39.6
01:10 AM - 01:15 AM	41.8	55.2	39.8
01:15 AM - 01:20 AM	41.2	47.9	39.6
01:20 AM - 01:25 AM	43.9	60.9	38.6
01:25 AM - 01:30 AM	40.6	48.7	38.1
01:30 AM - 01:35 AM	40.9	52.9	38.7
01:35 AM - 01:40 AM	42.0	59.0	38.8
01:40 AM - 01:45 AM	39.7	44.6	38.6
01:45 AM - 01:50 AM	41.1	52.2	38.5
01:50 AM - 01:55 AM	39.7	44.8	38.8
01:55 AM - 02:00 AM	39.4	53.4	37.6
02:00 AM - 02:05 AM	38.9	45.0	37.6
02:05 AM - 02:10 AM	39.6	53.3	37.4
02:10 AM - 02:15 AM	39.0	44.5	37.7
02:15 AM - 02:20 AM	40.8	52.4	38.0
02:20 AM - 02:25 AM	40.3	53.9	38.8
02:25 AM - 02:30 AM	40.1	49.4	38.3
02:30 AM - 02:35 AM	43.2	48.9	39.3
02:35 AM - 02:40 AM	42.8	54.5	39.2
02:40 AM - 02:45 AM	39.5	46.9	38.4
02:45 AM - 02:50 AM	42.5	57.8	39.5
02:50 AM - 02:55 AM	41.4	53.8	39.3
02:55 AM - 03:00 AM	40.1	48.0	38.7
03:00 AM - 03:05 AM	40.2	51.6	38.4
03:05 AM - 03:10 AM	40.2	50.2	38.5
03:10 AM - 03:15 AM	39.1	46.1	37.8
03:15 AM - 03:20 AM	44.3	57.9	39.3
03:20 AM - 03:25 AM	39.7	48.8	37.9
03:25 AM - 03:30 AM	40.0	53.3	38.5
03:30 AM - 03:35 AM	39.1	45.0	37.8
03:35 AM - 03:40 AM	41.6	55.5	38.9

Page 2 of 3

Approved by

Wilawan

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964025-1

Sample No. 2432543-1
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	40.0	54.1	38.3
03:45 AM - 03:50 AM	41.2	51.9	38.4
03:50 AM - 03:55 AM	39.3	42.9	38.2
03:55 AM - 04:00 AM	39.7	47.4	38.0
04:00 AM - 04:05 AM	40.1	46.3	38.7
04:05 AM - 04:10 AM	40.6	48.8	38.7
04:10 AM - 04:15 AM	41.4	62.5	38.9
04:15 AM - 04:20 AM	43.3	54.8	39.8
04:20 AM - 04:25 AM	42.3	51.7	39.9
04:25 AM - 04:30 AM	44.6	59.0	39.8
04:30 AM - 04:35 AM	42.9	51.7	40.3
04:35 AM - 04:40 AM	42.9	50.9	40.0
04:40 AM - 04:45 AM	44.5	58.5	40.4
04:45 AM - 04:50 AM	42.7	49.3	40.2
04:50 AM - 04:55 AM	42.5	50.3	40.0
04:55 AM - 05:00 AM	43.7	62.9	39.8
05:00 AM - 05:05 AM	43.0	54.2	39.9
05:05 AM - 05:10 AM	44.0	57.7	40.5
05:10 AM - 05:15 AM	42.8	55.9	40.1
05:15 AM - 05:20 AM	43.4	51.9	40.4
05:20 AM - 05:25 AM	46.2	65.5	41.4
05:25 AM - 05:30 AM	47.6	66.1	42.2
05:30 AM - 05:35 AM	43.7	52.1	41.3
05:35 AM - 05:40 AM	45.0	53.5	41.8
05:40 AM - 05:45 AM	46.8	59.6	42.8
05:45 AM - 05:50 AM	46.9	61.2	43.3
05:50 AM - 05:55 AM	49.7	68.6	44.1
05:55 AM - 06:00 AM	46.9	56.5	44.0
06:00 AM - 07:00 AM	49.6	66.8	44.3
07:00 AM - 08:00 AM	49.4	65.8	44.8
08:00 AM - 09:00 AM	48.4	66.3	43.8
09:00 AM - 10:00 AM	49.0	69.5	42.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964026-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432543-2
Parameter Noise
Location ชลประทาน/นาเกลือ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.4	69.2	41.4
11:00 AM - 12:00 PM	48.0	69.3	42.7
12:00 PM - 01:00 PM	47.3	80.1	41.2
01:00 PM - 02:00 PM	47.6	68.3	42.7
02:00 PM - 03:00 PM	47.5	75.1	41.9
03:00 PM - 04:00 PM	48.0	73.8	41.9
04:00 PM - 05:00 PM	49.6	68.5	44.7
05:00 PM - 06:00 PM	48.4	69.3	43.0
06:00 PM - 07:00 PM	49.2	60.1	46.3
07:00 PM - 08:00 PM	45.6	61.1	42.8
08:00 PM - 09:00 PM	45.4	60.9	42.1
09:00 PM - 10:00 PM	45.1	61.0	41.4
10:00 PM - 10:05 PM	45.6	54.1	42.1
10:05 PM - 10:10 PM	44.4	51.6	41.9
10:10 PM - 10:15 PM	45.2	54.2	41.6
10:15 PM - 10:20 PM	45.3	56.5	41.2
10:20 PM - 10:25 PM	43.8	50.9	40.7
10:25 PM - 10:30 PM	45.0	54.5	40.5
10:30 PM - 10:35 PM	44.0	53.5	40.7
10:35 PM - 10:40 PM	45.5	53.8	42.3
10:40 PM - 10:45 PM	45.5	53.8	43.3
10:45 PM - 10:50 PM	44.6	56.4	40.9
10:50 PM - 10:55 PM	42.5	51.9	39.8
10:55 PM - 11:00 PM	41.7	54.4	39.8
11:00 PM - 11:05 PM	42.1	52.1	39.6
11:05 PM - 11:10 PM	43.5	57.7	40.2
11:10 PM - 11:15 PM	42.0	53.5	39.4
11:15 PM - 11:20 PM	41.1	47.0	39.2
11:20 PM - 11:25 PM	42.3	50.8	39.1
11:25 PM - 11:30 PM	42.1	52.1	39.7
11:30 PM - 11:35 PM	43.1	54.4	39.9
11:35 PM - 11:40 PM	42.8	54.3	40.0
11:40 PM - 11:45 PM	45.4	52.6	40.0
11:45 PM - 11:50 PM	43.3	52.3	40.3
11:50 PM - 11:55 PM	43.2	53.9	40.2
11:55 PM - 12:00 AM	43.7	48.4	40.8
12:00 AM - 12:05 AM	46.4	58.9	40.8
12:05 AM - 12:10 AM	45.7	54.1	41.7
12:10 AM - 12:15 AM	46.5	50.2	43.8
12:15 AM - 12:20 AM	45.8	51.9	41.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964026-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432543-2
Parameter Noise
Location ชลประทาน/นาเกลือ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	47.6	53.5	43.8
12:25 AM - 12:30 AM	47.7	57.4	44.3
12:30 AM - 12:35 AM	48.0	63.0	45.2
12:35 AM - 12:40 AM	47.7	55.8	44.9
12:40 AM - 12:45 AM	46.9	55.4	45.2
12:45 AM - 12:50 AM	46.7	56.0	44.4
12:50 AM - 12:55 AM	45.9	52.5	43.6
12:55 AM - 01:00 AM	46.3	55.2	43.8
01:00 AM - 01:05 AM	47.0	56.9	39.7
01:05 AM - 01:10 AM	51.1	57.8	50.2
01:10 AM - 01:15 AM	50.0	55.6	46.4
01:15 AM - 01:20 AM	46.0	56.7	43.1
01:20 AM - 01:25 AM	45.9	58.1	43.1
01:25 AM - 01:30 AM	46.1	56.4	43.7
01:30 AM - 01:35 AM	45.5	54.9	43.4
01:35 AM - 01:40 AM	45.3	52.5	43.4
01:40 AM - 01:45 AM	44.0	55.2	41.5
01:45 AM - 01:50 AM	44.4	53.2	42.3
01:50 AM - 01:55 AM	44.8	53.7	42.8
01:55 AM - 02:00 AM	44.6	48.9	41.2
02:00 AM - 02:05 AM	43.4	47.0	41.1
02:05 AM - 02:10 AM	43.9	54.2	40.3
02:10 AM - 02:15 AM	41.6	57.0	38.0
02:15 AM - 02:20 AM	42.5	54.4	38.9
02:20 AM - 02:25 AM	45.8	60.9	39.5
02:25 AM - 02:30 AM	43.5	53.1	39.4
02:30 AM - 02:35 AM	40.4	53.2	38.6
02:35 AM - 02:40 AM	46.1	54.9	39.1
02:40 AM - 02:45 AM	41.7	54.5	38.6
02:45 AM - 02:50 AM	41.7	53.1	39.3
02:50 AM - 02:55 AM	40.5	53.5	38.6
02:55 AM - 03:00 AM	39.8	53.1	38.2
03:00 AM - 03:05 AM	40.1	53.7	38.3
03:05 AM - 03:10 AM	39.7	47.3	38.4
03:10 AM - 03:15 AM	40.0	52.7	38.2
03:15 AM - 03:20 AM	40.0	50.5	38.7
03:20 AM - 03:25 AM	40.2	46.4	38.7
03:25 AM - 03:30 AM	41.2	49.5	39.1
03:30 AM - 03:35 AM	40.8	52.5	39.1
03:35 AM - 03:40 AM	41.2	57.6	38.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964026-1

Sample No. : 2432543-2
Parameter : Noise
Location : ชุมชนบ้านนาบ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	42.0	53.8	38.8
03:45 AM - 03:50 AM	41.5	52.0	39.1
03:50 AM - 03:55 AM	42.5	60.0	39.0
03:55 AM - 04:00 AM	43.6	55.7	39.6
04:00 AM - 04:05 AM	41.1	51.5	38.9
04:05 AM - 04:10 AM	43.4	60.1	39.1
04:10 AM - 04:15 AM	41.5	55.3	39.2
04:15 AM - 04:20 AM	43.4	60.4	38.6
04:20 AM - 04:25 AM	44.5	55.7	39.3
04:25 AM - 04:30 AM	42.1	53.6	39.6
04:30 AM - 04:35 AM	43.5	56.9	39.6
04:35 AM - 04:40 AM	43.8	54.0	39.9
04:40 AM - 04:45 AM	43.1	54.1	39.1
04:45 AM - 04:50 AM	43.3	56.4	39.0
04:50 AM - 04:55 AM	44.0	57.3	40.1
04:55 AM - 05:00 AM	44.5	56.4	41.2
05:00 AM - 05:05 AM	45.5	58.1	41.6
05:05 AM - 05:10 AM	48.4	58.6	42.7
05:10 AM - 05:15 AM	47.8	59.3	44.0
05:15 AM - 05:20 AM	46.5	58.8	42.5
05:20 AM - 05:25 AM	48.0	61.9	44.0
05:25 AM - 05:30 AM	46.5	56.2	43.5
05:30 AM - 05:35 AM	46.9	62.9	42.5
05:35 AM - 05:40 AM	47.4	55.2	44.0
05:40 AM - 05:45 AM	48.3	60.1	44.6
05:45 AM - 05:50 AM	48.7	65.0	44.7
05:50 AM - 05:55 AM	47.2	61.5	43.7
05:55 AM - 06:00 AM	49.9	63.5	44.4
06:00 AM - 07:00 AM	49.5	67.3	44.1
07:00 AM - 08:00 AM	50.8	80.1	43.9
08:00 AM - 09:00 AM	47.5	64.9	42.8
09:00 AM - 10:00 AM	46.1	65.5	41.6

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการทำงานของเครื่องจักรโรงงาน พ.ศ. 2567

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964027-1

Sample No. : 2432543-3
Parameter : Noise
Location : ชุมชนบ้านนาบ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.5	75.0	41.5
11:00 AM - 12:00 PM	47.4	68.7	43.0
12:00 PM - 01:00 PM	47.6	68.4	43.4
01:00 PM - 02:00 PM	46.0	67.2	41.0
02:00 PM - 03:00 PM	47.1	72.3	41.8
03:00 PM - 04:00 PM	47.0	67.4	42.0
04:00 PM - 05:00 PM	47.2	70.0	43.6
05:00 PM - 06:00 PM	47.2	66.9	43.8
06:00 PM - 07:00 PM	49.0	67.5	43.6
07:00 PM - 08:00 PM	47.1	59.3	44.1
08:00 PM - 09:00 PM	46.5	58.7	43.1
09:00 PM - 10:00 PM	46.2	58.4	42.8
10:00 PM - 10:05 PM	47.7	57.8	42.8
10:05 PM - 10:10 PM	47.2	53.6	45.0
10:10 PM - 10:15 PM	47.9	55.6	46.1
10:15 PM - 10:20 PM	48.2	52.1	45.5
10:20 PM - 10:25 PM	50.4	56.6	46.8
10:25 PM - 10:30 PM	44.5	46.1	43.9
10:30 PM - 10:35 PM	47.1	54.5	43.0
10:35 PM - 10:40 PM	48.4	52.5	45.7
10:40 PM - 10:45 PM	48.5	52.9	46.2
10:45 PM - 10:50 PM	44.8	49.9	41.8
10:50 PM - 10:55 PM	45.2	50.1	41.4
10:55 PM - 11:00 PM	49.0	58.2	44.9
11:00 PM - 11:05 PM	51.7	53.6	50.9
11:05 PM - 11:10 PM	50.3	51.8	49.7
11:10 PM - 11:15 PM	57.1	63.6	46.9
11:15 PM - 11:20 PM	51.0	59.9	47.3
11:20 PM - 11:25 PM	50.4	56.6	46.8
11:25 PM - 11:30 PM	47.8	53.2	37.6
11:30 PM - 11:35 PM	48.7	51.9	46.7
11:35 PM - 11:40 PM	51.1	53.0	50.3
11:40 PM - 11:45 PM	51.1	55.4	37.9
11:45 PM - 11:50 PM	49.4	54.4	46.1
11:50 PM - 11:55 PM	50.4	56.5	48.4
11:55 PM - 12:00 AM	50.3	56.8	48.5
12:00 AM - 12:05 AM	54.3	62.6	48.2
12:05 AM - 12:10 AM	45.2	50.1	41.4
12:10 AM - 12:15 AM	48.6	53.3	46.7
12:15 AM - 12:20 AM	48.3	51.8	46.3

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS: 616/10 Moo 5, T. Maenam Khro A. Phakdaeng Rayong 21140 Thailand PHONE: +66 0 3304 8555 FAX: +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS: 616/10 Moo 5, T. Maenam Khro A. Phakdaeng Rayong 21140 Thailand PHONE: +66 0 3304 8555 FAX: +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964027-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432543-3
Parameter Noise
Location ชุมชนบ้านบ่อน (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	52.3	62.0	45.7
12:25 AM - 12:30 AM	54.4	63.7	45.3
12:30 AM - 12:35 AM	48.7	55.7	46.6
12:35 AM - 12:40 AM	47.5	52.5	45.6
12:40 AM - 12:45 AM	47.4	52.2	45.1
12:45 AM - 12:50 AM	48.3	51.8	46.3
12:50 AM - 12:55 AM	46.9	52.9	44.5
12:55 AM - 01:00 AM	51.9	56.2	49.1
01:00 AM - 01:05 AM	47.9	54.5	45.4
01:05 AM - 01:10 AM	47.0	55.4	44.1
01:10 AM - 01:15 AM	45.3	54.9	41.5
01:15 AM - 01:20 AM	47.3	51.6	44.8
01:20 AM - 01:25 AM	47.2	59.2	44.4
01:25 AM - 01:30 AM	47.6	52.5	44.2
01:30 AM - 01:35 AM	47.4	52.2	45.1
01:35 AM - 01:40 AM	45.7	51.4	43.1
01:40 AM - 01:45 AM	44.2	52.6	39.7
01:45 AM - 01:50 AM	47.0	55.4	44.1
01:50 AM - 01:55 AM	48.2	52.9	45.4
01:55 AM - 02:00 AM	45.1	57.2	43.1
02:00 AM - 02:05 AM	40.9	48.9	38.7
02:05 AM - 02:10 AM	40.4	56.5	38.7
02:10 AM - 02:15 AM	39.9	45.2	38.8
02:15 AM - 02:20 AM	44.2	52.6	39.7
02:20 AM - 02:25 AM	41.4	48.1	39.8
02:25 AM - 02:30 AM	45.8	54.6	40.3
02:30 AM - 02:35 AM	47.0	52.3	40.8
02:35 AM - 02:40 AM	47.0	56.5	39.8
02:40 AM - 02:45 AM	40.7	46.6	39.7
02:45 AM - 02:50 AM	42.3	53.7	39.8
02:50 AM - 02:55 AM	43.3	55.2	40.0
02:55 AM - 03:00 AM	41.8	47.4	39.3
03:00 AM - 03:05 AM	41.0	53.8	39.4
03:05 AM - 03:10 AM	40.8	52.6	39.7
03:10 AM - 03:15 AM	40.1	45.3	37.8
03:15 AM - 03:20 AM	39.8	45.5	38.2
03:20 AM - 03:25 AM	40.3	48.2	38.8
03:25 AM - 03:30 AM	40.7	46.6	39.7
03:30 AM - 03:35 AM	39.8	47.6	38.2
03:35 AM - 03:40 AM	44.3	49.4	43.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khro A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964027-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432543-3
Parameter Noise
Location ชุมชนบ้านบ่อน (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	44.8	54.2	43.3
03:45 AM - 03:50 AM	39.7	45.9	38.2
03:50 AM - 03:55 AM	39.4	50.2	38.1
03:55 AM - 04:00 AM	39.9	50.8	38.6
04:00 AM - 04:05 AM	39.0	51.8	37.4
04:05 AM - 04:10 AM	38.8	50.6	37.7
04:10 AM - 04:15 AM	38.1	43.3	35.8
04:15 AM - 04:20 AM	55.4	64.7	38.8
04:20 AM - 04:25 AM	51.1	59.9	47.2
04:25 AM - 04:30 AM	54.8	60.2	44.6
04:30 AM - 04:35 AM	42.1	52.0	39.7
04:35 AM - 04:40 AM	42.4	50.9	39.8
04:40 AM - 04:45 AM	45.3	53.4	40.4
04:45 AM - 04:50 AM	42.2	60.3	39.9
04:50 AM - 04:55 AM	43.1	57.2	40.1
04:55 AM - 05:00 AM	44.2	55.5	40.2
05:00 AM - 05:05 AM	42.5	52.9	39.7
05:05 AM - 05:10 AM	44.1	55.9	40.2
05:10 AM - 05:15 AM	43.1	56.3	40.5
05:15 AM - 05:20 AM	43.6	58.1	41.4
05:20 AM - 05:25 AM	44.6	52.5	41.3
05:25 AM - 05:30 AM	47.3	59.5	41.8
05:30 AM - 05:35 AM	42.9	52.9	39.9
05:35 AM - 05:40 AM	43.6	52.8	40.1
05:40 AM - 05:45 AM	48.0	56.5	45.2
05:45 AM - 05:50 AM	51.9	56.2	49.1
05:50 AM - 05:55 AM	46.9	60.8	43.3
05:55 AM - 06:00 AM	49.7	62.9	43.3
06:00 AM - 07:00 AM	50.1	71.8	43.9
07:00 AM - 08:00 AM	50.6	70.9	44.3
08:00 AM - 09:00 AM	48.7	71.5	42.4
09:00 AM - 10:00 AM	45.4	64.5	40.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khro A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964028-1

Sample No. 2432543-4
Parameter Noise
Location โรงกลั่นปิโตรเลียม (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.9	72.5	41.4
11:00 AM - 12:00 PM	50.6	67.6	44.4
12:00 PM - 01:00 PM	50.9	73.6	41.1
01:00 PM - 02:00 PM	50.3	78.1	42.1
02:00 PM - 03:00 PM	45.4	68.9	39.9
03:00 PM - 04:00 PM	48.2	64.2	43.6
04:00 PM - 05:00 PM	49.8	67.9	45.3
05:00 PM - 06:00 PM	48.6	68.1	42.9
06:00 PM - 07:00 PM	54.4	75.4	49.3
07:00 PM - 08:00 PM	46.4	64.4	43.8
08:00 PM - 09:00 PM	45.3	65.5	41.4
09:00 PM - 10:00 PM	43.5	58.1	39.9
10:00 PM - 10:05 PM	46.8	65.1	39.2
10:05 PM - 10:10 PM	42.4	54.1	39.2
10:10 PM - 10:15 PM	43.4	53.8	40.3
10:15 PM - 10:20 PM	42.7	49.7	40.9
10:20 PM - 10:25 PM	43.1	52.4	40.2
10:25 PM - 10:30 PM	42.4	48.7	38.8
10:30 PM - 10:35 PM	42.7	50.6	39.6
10:35 PM - 10:40 PM	43.3	60.0	38.7
10:40 PM - 10:45 PM	41.0	52.5	38.8
10:45 PM - 10:50 PM	44.8	55.6	39.8
10:50 PM - 10:55 PM	42.2	56.0	39.1
10:55 PM - 11:00 PM	42.0	50.8	39.5
11:00 PM - 11:05 PM	41.7	51.8	39.1
11:05 PM - 11:10 PM	41.3	51.2	39.8
11:10 PM - 11:15 PM	46.0	58.6	40.5
11:15 PM - 11:20 PM	43.2	52.4	40.3
11:20 PM - 11:25 PM	42.7	55.9	39.4
11:25 PM - 11:30 PM	41.9	53.8	39.7
11:30 PM - 11:35 PM	42.6	55.4	38.8
11:35 PM - 11:40 PM	42.2	54.0	39.5
11:40 PM - 11:45 PM	40.3	48.7	38.9
11:45 PM - 11:50 PM	40.8	49.1	39.3
11:50 PM - 11:55 PM	42.9	47.7	40.4
11:55 PM - 12:00 AM	45.1	55.1	42.4
12:00 AM - 12:05 AM	41.6	51.8	39.4
12:05 AM - 12:10 AM	43.2	53.9	40.6
12:10 AM - 12:15 AM	43.8	54.1	41.6
12:15 AM - 12:20 AM	44.2	59.7	40.1

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432543-4
Parameter Noise
Location โรงกลั่นปิโตรเลียม (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	41.8	49.1	39.7
12:25 AM - 12:30 AM	44.3	56.3	41.3
12:30 AM - 12:35 AM	41.4	50.0	39.0
12:35 AM - 12:40 AM	41.3	47.3	39.2
12:40 AM - 12:45 AM	42.2	47.5	40.2
12:45 AM - 12:50 AM	42.2	49.1	40.1
12:50 AM - 12:55 AM	41.6	48.4	40.0
12:55 AM - 01:00 AM	44.3	57.7	40.6
01:00 AM - 01:05 AM	43.2	54.8	40.1
01:05 AM - 01:10 AM	43.1	55.5	39.5
01:10 AM - 01:15 AM	41.0	54.0	38.3
01:15 AM - 01:20 AM	39.7	46.2	38.3
01:20 AM - 01:25 AM	39.8	44.2	38.6
01:25 AM - 01:30 AM	39.3	45.6	38.1
01:30 AM - 01:35 AM	39.8	46.7	38.4
01:35 AM - 01:40 AM	43.8	51.0	40.5
01:40 AM - 01:45 AM	41.9	44.8	40.1
01:45 AM - 01:50 AM	47.4	53.8	42.9
01:50 AM - 01:55 AM	50.7	58.1	49.2
01:55 AM - 02:00 AM	41.9	51.1	39.8
02:00 AM - 02:05 AM	41.4	47.7	39.5
02:05 AM - 02:10 AM	41.2	48.4	39.8
02:10 AM - 02:15 AM	41.3	49.3	40.1
02:15 AM - 02:20 AM	44.6	61.1	39.8
02:20 AM - 02:25 AM	41.2	47.3	39.1
02:25 AM - 02:30 AM	39.5	48.5	37.9
02:30 AM - 02:35 AM	39.9	46.6	38.5
02:35 AM - 02:40 AM	40.3	51.8	38.3
02:40 AM - 02:45 AM	40.3	45.9	39.0
02:45 AM - 02:50 AM	40.9	50.4	39.0
02:50 AM - 02:55 AM	42.2	55.7	39.6
02:55 AM - 03:00 AM	41.6	50.1	39.9
03:00 AM - 03:05 AM	41.5	49.7	39.8
03:05 AM - 03:10 AM	41.2	46.3	39.8
03:10 AM - 03:15 AM	41.7	61.2	38.8
03:15 AM - 03:20 AM	39.7	43.6	38.4
03:20 AM - 03:25 AM	40.6	44.2	39.4
03:25 AM - 03:30 AM	41.1	46.6	39.4
03:30 AM - 03:35 AM	40.7	46.0	39.3
03:35 AM - 03:40 AM	41.2	48.7	39.3

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonrak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTS RIGHT PEOPLE



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964028-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432543-4
Parameter Noise
Location เขตเทศบาลนคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	41.0	54.4	38.6
03:45 AM - 03:50 AM	40.5	52.2	39.0
03:50 AM - 03:55 AM	42.4	54.8	38.8
03:55 AM - 04:00 AM	41.0	51.9	39.1
04:00 AM - 04:05 AM	41.5	51.1	39.7
04:05 AM - 04:10 AM	42.4	51.2	39.5
04:10 AM - 04:15 AM	41.4	51.8	38.9
04:15 AM - 04:20 AM	41.2	52.9	38.6
04:20 AM - 04:25 AM	45.3	61.2	39.4
04:25 AM - 04:30 AM	43.1	54.3	39.5
04:30 AM - 04:35 AM	44.8	56.2	40.2
04:35 AM - 04:40 AM	42.8	50.9	39.8
04:40 AM - 04:45 AM	45.1	61.1	40.2
04:45 AM - 04:50 AM	43.4	52.8	40.0
04:50 AM - 04:55 AM	43.7	53.4	40.6
04:55 AM - 05:00 AM	45.3	57.3	41.9
05:00 AM - 05:05 AM	43.1	54.3	39.5
05:05 AM - 05:10 AM	53.7	59.3	48.8
05:10 AM - 05:15 AM	52.3	60.3	49.5
05:15 AM - 05:20 AM	47.1	61.5	43.5
05:20 AM - 05:25 AM	47.7	63.8	43.3
05:25 AM - 05:30 AM	48.5	63.3	43.4
05:30 AM - 05:35 AM	46.7	59.9	43.2
05:35 AM - 05:40 AM	48.3	64.2	42.8
05:40 AM - 05:45 AM	49.5	65.0	43.2
05:45 AM - 05:50 AM	47.5	65.1	42.9
05:50 AM - 05:55 AM	48.3	60.8	43.3
05:55 AM - 06:00 AM	48.7	60.2	43.6
06:00 AM - 07:00 AM	49.1	67.0	44.1
07:00 AM - 08:00 AM	48.1	67.6	43.9
08:00 AM - 09:00 AM	46.3	63.0	41.3
09:00 AM - 10:00 AM	47.0	72.4	41.1

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงจากโรงงาน ตามระดับเสียงเฉลี่ยต่อ 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964029-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432543-5
Parameter Noise
Location เขตเทศบาลนคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	46.7	67.9	41.8
11:00 AM - 12:00 PM	46.8	65.5	41.8
12:00 PM - 01:00 PM	47.3	66.8	42.5
01:00 PM - 02:00 PM	50.5	78.3	43.5
02:00 PM - 03:00 PM	48.8	75.7	43.6
03:00 PM - 04:00 PM	48.9	69.7	43.2
04:00 PM - 05:00 PM	49.1	73.8	44.2
05:00 PM - 06:00 PM	56.4	71.4	50.9
06:00 PM - 07:00 PM	46.6	62.6	43.2
07:00 PM - 08:00 PM	45.3	57.6	42.8
08:00 PM - 09:00 PM	45.8	59.2	42.8
09:00 PM - 10:00 PM	45.1	57.3	42.7
10:00 PM - 10:05 PM	43.4	52.3	40.9
10:05 PM - 10:10 PM	43.0	50.3	40.7
10:10 PM - 10:15 PM	44.3	58.5	41.4
10:15 PM - 10:20 PM	44.3	51.0	41.9
10:20 PM - 10:25 PM	43.9	52.1	42.0
10:25 PM - 10:30 PM	44.5	53.2	42.0
10:30 PM - 10:35 PM	46.4	55.2	41.6
10:35 PM - 10:40 PM	46.4	56.9	42.3
10:40 PM - 10:45 PM	43.8	51.6	41.8
10:45 PM - 10:50 PM	44.4	52.1	41.2
10:50 PM - 10:55 PM	43.1	50.4	41.0
10:55 PM - 11:00 PM	59.8	71.5	46.7
11:00 PM - 11:05 PM	59.8	71.5	46.7
11:05 PM - 11:10 PM	43.4	51.9	39.4
11:10 PM - 11:15 PM	42.8	55.8	32.7
11:15 PM - 11:20 PM	42.2	52.7	39.8
11:20 PM - 11:25 PM	42.5	54.2	39.5
11:25 PM - 11:30 PM	42.8	49.5	40.6
11:30 PM - 11:35 PM	42.6	48.8	40.9
11:35 PM - 11:40 PM	42.0	51.6	39.8
11:40 PM - 11:45 PM	42.6	50.8	39.9
11:45 PM - 11:50 PM	42.7	48.2	40.5
11:50 PM - 11:55 PM	42.5	47.9	40.6
11:55 PM - 12:00 AM	42.9	50.0	41.0
12:00 AM - 12:05 AM	43.2	50.0	41.7
12:05 AM - 12:10 AM	43.2	55.9	41.0
12:10 AM - 12:15 AM	43.1	55.5	39.9
12:15 AM - 12:20 AM	41.1	45.7	39.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964029-1

Sample No. 2432543-5
Parameter Noise
Location ชุมชนบ้านนาบอน (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	41.1	49.0	39.6
12:25 AM - 12:30 AM	42.9	52.5	41.1
12:30 AM - 12:35 AM	42.6	48.9	41.2
12:35 AM - 12:40 AM	43.0	50.4	41.2
12:40 AM - 12:45 AM	42.6	53.3	40.8
12:45 AM - 12:50 AM	42.4	47.0	40.9
12:50 AM - 12:55 AM	42.6	52.1	40.2
12:55 AM - 01:00 AM	42.2	52.1	40.4
01:00 AM - 01:05 AM	41.3	48.9	38.7
01:05 AM - 01:10 AM	40.9	49.0	38.9
01:10 AM - 01:15 AM	41.2	46.4	39.3
01:15 AM - 01:20 AM	41.9	56.8	40.0
01:20 AM - 01:25 AM	41.6	45.9	40.1
01:25 AM - 01:30 AM	45.4	61.2	40.2
01:30 AM - 01:35 AM	41.8	50.3	40.1
01:35 AM - 01:40 AM	41.1	45.5	39.8
01:40 AM - 01:45 AM	41.0	51.5	39.2
01:45 AM - 01:50 AM	40.0	47.3	38.5
01:50 AM - 01:55 AM	41.6	56.3	38.7
01:55 AM - 02:00 AM	40.2	48.3	38.6
02:00 AM - 02:05 AM	41.9	52.3	39.3
02:05 AM - 02:10 AM	42.8	55.4	38.8
02:10 AM - 02:15 AM	40.2	54.6	38.3
02:15 AM - 02:20 AM	41.0	52.3	38.5
02:20 AM - 02:25 AM	40.8	50.9	38.3
02:25 AM - 02:30 AM	42.2	51.2	39.1
02:30 AM - 02:35 AM	40.8	50.0	39.7
02:35 AM - 02:40 AM	41.1	49.6	39.0
02:40 AM - 02:45 AM	42.8	55.7	39.8
02:45 AM - 02:50 AM	42.0	52.2	39.8
02:50 AM - 02:55 AM	41.2	54.7	38.7
02:55 AM - 03:00 AM	40.4	46.4	39.0
03:00 AM - 03:05 AM	41.2	50.1	38.8
03:05 AM - 03:10 AM	40.5	50.9	38.0
03:10 AM - 03:15 AM	39.6	47.6	38.3
03:15 AM - 03:20 AM	39.5	49.4	37.9
03:20 AM - 03:25 AM	40.6	48.6	38.9
03:25 AM - 03:30 AM	40.6	46.7	38.8
03:30 AM - 03:35 AM	41.3	51.7	39.1
03:35 AM - 03:40 AM	41.8	54.6	37.8

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964029-1

Sample No. 2432543-5
Parameter Noise
Location ชุมชนบ้านนาบอน (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	40.2	46.8	38.6
03:45 AM - 03:50 AM	41.0	49.3	39.2
03:50 AM - 03:55 AM	41.7	59.0	38.7
03:55 AM - 04:00 AM	43.6	55.3	39.3
04:00 AM - 04:05 AM	42.5	52.5	39.4
04:05 AM - 04:10 AM	41.6	53.2	39.1
04:10 AM - 04:15 AM	42.3	52.5	39.1
04:15 AM - 04:20 AM	42.0	52.5	38.8
04:20 AM - 04:25 AM	41.8	53.8	38.7
04:25 AM - 04:30 AM	43.1	54.4	39.9
04:30 AM - 04:35 AM	45.4	60.1	39.9
04:35 AM - 04:40 AM	43.0	54.6	39.6
04:40 AM - 04:45 AM	44.1	54.3	40.7
04:45 AM - 04:50 AM	59.9	68.5	52.3
04:50 AM - 04:55 AM	60.8	69.4	53.2
04:55 AM - 05:00 AM	49.8	58.3	46.0
05:00 AM - 05:05 AM	49.1	60.8	43.6
05:05 AM - 05:10 AM	49.5	60.3	46.1
05:10 AM - 05:15 AM	49.2	61.5	43.9
05:15 AM - 05:20 AM	48.6	59.8	44.7
05:20 AM - 05:25 AM	50.3	63.6	45.5
05:25 AM - 05:30 AM	50.4	62.0	44.6
05:30 AM - 05:35 AM	48.0	61.2	44.5
05:35 AM - 05:40 AM	46.8	57.6	43.8
05:40 AM - 05:45 AM	49.2	63.1	44.6
05:45 AM - 05:50 AM	48.0	65.2	44.3
05:50 AM - 05:55 AM	49.1	60.8	43.6
05:55 AM - 06:00 AM	45.4	57.2	42.7
06:00 AM - 07:00 AM	48.3	67.2	43.1
07:00 AM - 08:00 AM	46.1	63.9	41.5
08:00 AM - 09:00 AM	47.0	69.4	42.0
09:00 AM - 10:00 AM	44.5	63.9	40.6

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

The above results are valid only for the analysed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory - ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964030-1

Sample No. 2432543-6
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.7	68.5	41.4
11:00 AM - 12:00 PM	46.0	66.3	40.7
12:00 PM - 01:00 PM	48.0	75.5	41.9
01:00 PM - 02:00 PM	48.6	71.0	41.3
02:00 PM - 03:00 PM	46.5	64.9	40.2
03:00 PM - 04:00 PM	44.7	66.4	40.6
04:00 PM - 05:00 PM	45.7	64.7	41.5
05:00 PM - 06:00 PM	47.9	65.0	43.0
06:00 PM - 07:00 PM	51.2	65.2	47.1
07:00 PM - 08:00 PM	47.6	57.8	44.8
08:00 PM - 09:00 PM	46.4	62.2	43.1
09:00 PM - 10:00 PM	46.6	62.2	44.2
10:00 PM - 10:05 PM	51.4	61.6	48.6
10:05 PM - 10:10 PM	49.7	57.8	47.1
10:10 PM - 10:15 PM	50.8	61.7	48.9
10:15 PM - 10:20 PM	47.9	58.9	45.5
10:20 PM - 10:25 PM	48.0	63.0	45.5
10:25 PM - 10:30 PM	47.6	57.1	45.7
10:30 PM - 10:35 PM	46.9	57.4	45.0
10:35 PM - 10:40 PM	46.9	55.9	44.3
10:40 PM - 10:45 PM	46.1	52.3	45.1
10:45 PM - 10:50 PM	47.1	54.5	44.5
10:50 PM - 10:55 PM	47.3	54.1	46.4
10:55 PM - 11:00 PM	48.0	60.0	46.2
11:00 PM - 11:05 PM	48.7	57.1	46.1
11:05 PM - 11:10 PM	49.3	55.6	46.4
11:10 PM - 11:15 PM	51.8	56.5	49.0
11:15 PM - 11:20 PM	42.6	58.9	39.4
11:20 PM - 11:25 PM	50.9	64.4	48.9
11:25 PM - 11:30 PM	52.2	62.9	48.9
11:30 PM - 11:35 PM	51.4	66.9	48.4
11:35 PM - 11:40 PM	48.2	56.1	47.1
11:40 PM - 11:45 PM	46.9	53.0	42.6
11:45 PM - 11:50 PM	46.7	60.4	42.6
11:50 PM - 11:55 PM	48.6	57.0	46.4
11:55 PM - 12:00 AM	44.7	52.7	41.3
12:00 AM - 12:05 AM	42.6	53.9	39.6
12:05 AM - 12:10 AM	40.9	47.8	39.0
12:10 AM - 12:15 AM	46.2	59.7	40.0
12:15 AM - 12:20 AM	44.4	51.8	41.2

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964030-1

Sample No. 2432543-6
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	43.1	52.4	39.7
12:25 AM - 12:30 AM	42.8	52.9	39.6
12:30 AM - 12:35 AM	43.7	50.5	40.4
12:35 AM - 12:40 AM	42.9	49.9	39.8
12:40 AM - 12:45 AM	43.4	52.4	39.7
12:45 AM - 12:50 AM	42.5	48.8	39.0
12:50 AM - 12:55 AM	43.6	50.7	39.3
12:55 AM - 01:00 AM	42.9	49.3	40.1
01:00 AM - 01:05 AM	43.9	57.0	40.9
01:05 AM - 01:10 AM	43.4	65.5	39.8
01:10 AM - 01:15 AM	44.8	53.4	40.5
01:15 AM - 01:20 AM	45.8	50.7	41.3
01:20 AM - 01:25 AM	42.2	49.0	39.4
01:25 AM - 01:30 AM	42.2	49.8	39.4
01:30 AM - 01:35 AM	44.0	58.3	39.2
01:35 AM - 01:40 AM	41.9	51.1	39.2
01:40 AM - 01:45 AM	41.6	52.1	39.1
01:45 AM - 01:50 AM	42.5	52.6	40.1
01:50 AM - 01:55 AM	41.0	47.7	39.7
01:55 AM - 02:00 AM	40.6	49.9	39.0
02:00 AM - 02:05 AM	40.7	48.5	39.3
02:05 AM - 02:10 AM	43.6	60.8	38.6
02:10 AM - 02:15 AM	41.2	48.1	39.9
02:15 AM - 02:20 AM	40.7	48.2	39.3
02:20 AM - 02:25 AM	41.8	55.8	39.3
02:25 AM - 02:30 AM	40.5	45.2	39.2
02:30 AM - 02:35 AM	40.8	51.3	39.3
02:35 AM - 02:40 AM	41.5	54.0	39.4
02:40 AM - 02:45 AM	40.0	43.3	38.6
02:45 AM - 02:50 AM	40.5	53.1	38.9
02:50 AM - 02:55 AM	39.9	43.9	38.1
02:55 AM - 03:00 AM	40.3	45.5	38.7
03:00 AM - 03:05 AM	46.4	57.5	40.0
03:05 AM - 03:10 AM	41.0	47.0	39.4
03:10 AM - 03:15 AM	41.3	53.6	39.5
03:15 AM - 03:20 AM	40.5	47.7	38.8
03:20 AM - 03:25 AM	41.3	57.6	39.7
03:25 AM - 03:30 AM	41.1	49.0	39.2
03:30 AM - 03:35 AM	40.5	54.9	39.3
03:35 AM - 03:40 AM	39.8	45.8	38.2

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964030-1

Sample No. : 2432543-6
Parameter : Noise
Location : ฐานรณภพ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	41.7	51.0	38.2
03:45 AM - 03:50 AM	39.8	49.0	38.4
03:50 AM - 03:55 AM	39.7	47.7	37.4
03:55 AM - 04:00 AM	39.8	45.2	37.9
04:00 AM - 04:05 AM	39.4	43.6	37.7
04:05 AM - 04:10 AM	39.9	47.2	38.4
04:10 AM - 04:15 AM	40.2	46.1	38.8
04:15 AM - 04:20 AM	40.1	48.8	38.7
04:20 AM - 04:25 AM	40.2	50.1	38.6
04:25 AM - 04:30 AM	42.0	52.6	38.3
04:30 AM - 04:35 AM	42.4	51.5	38.9
04:35 AM - 04:40 AM	41.1	52.2	39.0
04:40 AM - 04:45 AM	40.0	47.3	38.2
04:45 AM - 04:50 AM	40.9	49.8	38.9
04:50 AM - 04:55 AM	42.1	53.0	39.1
04:55 AM - 05:00 AM	43.1	60.6	38.6
05:00 AM - 05:05 AM	41.9	53.0	38.9
05:05 AM - 05:10 AM	43.8	56.1	39.6
05:10 AM - 05:15 AM	44.5	54.4	40.1
05:15 AM - 05:20 AM	43.8	53.4	40.1
05:20 AM - 05:25 AM	45.6	60.5	39.9
05:25 AM - 05:30 AM	44.0	55.3	40.5
05:30 AM - 05:35 AM	43.7	55.9	39.8
05:35 AM - 05:40 AM	43.4	55.0	40.2
05:40 AM - 05:45 AM	58.3	68.9	53.5
05:45 AM - 05:50 AM	58.2	71.0	54.3
05:50 AM - 05:55 AM	51.4	60.2	43.6
05:55 AM - 06:00 AM	46.4	57.5	40.9
06:00 AM - 07:00 AM	50.3	66.0	45.2
07:00 AM - 08:00 AM	50.2	77.6	43.1
08:00 AM - 09:00 AM	45.5	69.9	39.2
09:00 AM - 10:00 AM	44.6	64.2	38.8

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964031-1

Sample No. : 2432543-7
Parameter : Noise
Location : ฐานรณภพ (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date : Apr 08 - 09, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.0	69.9	40.3
11:00 AM - 12:00 PM	45.1	62.9	40.5
12:00 PM - 01:00 PM	46.2	67.4	41.4
01:00 PM - 02:00 PM	46.6	65.9	42.1
02:00 PM - 03:00 PM	47.0	69.9	42.0
03:00 PM - 04:00 PM	45.4	64.6	41.4
04:00 PM - 05:00 PM	46.8	68.1	42.6
05:00 PM - 06:00 PM	49.1	69.7	44.6
06:00 PM - 07:00 PM	48.0	69.5	44.9
07:00 PM - 08:00 PM	45.6	64.2	42.3
08:00 PM - 09:00 PM	45.5	67.5	42.1
09:00 PM - 10:00 PM	47.6	61.0	44.6
10:00 PM - 10:05 PM	50.8	60.5	49.5
10:05 PM - 10:10 PM	49.7	55.2	48.9
10:10 PM - 10:15 PM	45.8	62.4	39.3
10:15 PM - 10:20 PM	41.5	53.7	39.5
10:20 PM - 10:25 PM	44.9	52.5	41.1
10:25 PM - 10:30 PM	43.3	50.8	41.1
10:30 PM - 10:35 PM	43.4	50.9	40.5
10:35 PM - 10:40 PM	43.4	55.6	40.3
10:40 PM - 10:45 PM	52.7	63.1	41.5
10:45 PM - 10:50 PM	46.8	51.0	41.5
10:50 PM - 10:55 PM	49.0	56.5	42.9
10:55 PM - 11:00 PM	49.8	58.1	48.5
11:00 PM - 11:05 PM	49.3	52.5	48.8
11:05 PM - 11:10 PM	49.7	53.8	49.1
11:10 PM - 11:15 PM	49.5	53.2	49.0
11:15 PM - 11:20 PM	49.7	53.9	49.3
11:20 PM - 11:25 PM	49.3	54.0	48.8
11:25 PM - 11:30 PM	49.4	53.4	48.5
11:30 PM - 11:35 PM	52.1	56.4	48.8
11:35 PM - 11:40 PM	52.8	57.1	52.1
11:40 PM - 11:45 PM	52.5	55.1	52.0
11:45 PM - 11:50 PM	52.6	55.9	50.6
11:50 PM - 11:55 PM	51.9	56.3	39.1
11:55 PM - 12:00 AM	45.8	53.4	42.0
12:00 AM - 12:05 AM	50.7	53.3	50.2
12:05 AM - 12:10 AM	48.0	53.7	41.9
12:10 AM - 12:15 AM	43.6	51.8	41.1
12:15 AM - 12:20 AM	48.4	53.8	41.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964031-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432543-7
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 12:25 AM	48.7	54.1	41.0
12:25 AM - 12:30 AM	47.3	53.0	41.2
12:30 AM - 12:35 AM	48.5	51.2	48.1
12:35 AM - 12:40 AM	48.4	51.6	48.0
12:40 AM - 12:45 AM	48.1	51.2	47.6
12:45 AM - 12:50 AM	50.5	55.9	47.7
12:50 AM - 12:55 AM	51.9	56.2	51.2
12:55 AM - 01:00 AM	51.6	54.2	51.1
01:00 AM - 01:05 AM	53.5	56.8	51.5
01:05 AM - 01:10 AM	47.9	55.4	39.3
01:10 AM - 01:15 AM	42.8	52.0	39.9
01:15 AM - 01:20 AM	41.9	53.8	39.8
01:20 AM - 01:25 AM	43.4	52.0	38.2
01:25 AM - 01:30 AM	40.6	52.5	38.3
01:30 AM - 01:35 AM	40.5	46.2	38.7
01:35 AM - 01:40 AM	43.5	58.0	38.8
01:40 AM - 01:45 AM	40.1	50.5	37.8
01:45 AM - 01:50 AM	39.3	45.0	37.9
01:50 AM - 01:55 AM	44.9	61.5	38.4
01:55 AM - 02:00 AM	40.6	52.8	38.6
02:00 AM - 02:05 AM	45.3	52.2	38.7
02:05 AM - 02:10 AM	49.5	52.2	48.8
02:10 AM - 02:15 AM	46.7	51.8	38.2
02:15 AM - 02:20 AM	51.7	69.6	47.7
02:20 AM - 02:25 AM	48.6	52.8	39.8
02:25 AM - 02:30 AM	49.9	51.2	49.5
02:30 AM - 02:35 AM	49.0	54.0	39.5
02:35 AM - 02:40 AM	42.3	62.3	39.0
02:40 AM - 02:45 AM	46.2	53.1	39.6
02:45 AM - 02:50 AM	49.5	57.9	41.3
02:50 AM - 02:55 AM	48.8	53.0	40.0
02:55 AM - 03:00 AM	43.3	49.7	38.3
03:00 AM - 03:05 AM	48.6	51.9	48.1
03:05 AM - 03:10 AM	43.3	56.6	38.9
03:10 AM - 03:15 AM	43.2	56.5	39.4
03:15 AM - 03:20 AM	45.9	65.4	39.2
03:20 AM - 03:25 AM	42.8	62.8	39.5
03:25 AM - 03:30 AM	40.3	45.2	39.2
03:30 AM - 03:35 AM	39.6	43.6	38.5
03:35 AM - 03:40 AM	40.4	48.2	39.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432543
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2964031-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432543-7
Parameter Noise
Location กรุงเทพมหานคร (GPS 47P 0735247, 1409017) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 1120939

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:40 AM - 03:45 AM	39.0	43.1	37.9
03:45 AM - 03:50 AM	45.9	45.9	38.5
03:50 AM - 03:55 AM	40.2	50.3	38.2
03:55 AM - 04:00 AM	41.5	54.3	38.7
04:00 AM - 04:05 AM	41.7	54.9	38.7
04:05 AM - 04:10 AM	41.5	55.2	37.9
04:10 AM - 04:15 AM	41.9	54.3	38.9
04:15 AM - 04:20 AM	42.1	52.7	39.0
04:20 AM - 04:25 AM	40.8	58.9	38.3
04:25 AM - 04:30 AM	44.9	64.9	37.6
04:30 AM - 04:35 AM	41.0	51.7	38.0
04:35 AM - 04:40 AM	42.2	52.8	38.8
04:40 AM - 04:45 AM	42.5	53.2	39.3
04:45 AM - 04:50 AM	41.4	52.5	38.5
04:50 AM - 04:55 AM	42.6	54.0	39.1
04:55 AM - 05:00 AM	41.2	52.1	37.6
05:00 AM - 05:05 AM	42.0	54.6	38.9
05:05 AM - 05:10 AM	42.4	52.4	40.0
05:10 AM - 05:15 AM	43.6	52.4	40.1
05:15 AM - 05:20 AM	44.5	54.3	40.1
05:20 AM - 05:25 AM	42.4	52.6	39.7
05:25 AM - 05:30 AM	43.4	54.0	39.8
05:30 AM - 05:35 AM	44.0	54.3	40.6
05:35 AM - 05:40 AM	45.7	60.1	40.9
05:40 AM - 05:45 AM	47.5	60.1	42.0
05:45 AM - 05:50 AM	49.3	65.4	43.9
05:50 AM - 05:55 AM	50.6	62.2	43.7
05:55 AM - 06:00 AM	50.2	63.6	44.1
06:00 AM - 07:00 AM	47.8	65.2	42.8
07:00 AM - 08:00 AM	48.1	64.4	43.8
08:00 AM - 09:00 AM	47.3	63.1	41.6
09:00 AM - 10:00 AM	44.8	63.6	39.8

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963976-1

Sample No. : 2432544-1
Parameter : Noise
Location : บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.2	70.0	46.0
12:00 PM - 01:00 PM	51.7	76.7	46.7
01:00 PM - 02:00 PM	54.8	72.0	48.6
02:00 PM - 03:00 PM	51.2	69.2	45.9
03:00 PM - 04:00 PM	52.3	85.3	46.6
04:00 PM - 05:00 PM	51.1	71.7	46.4
05:00 PM - 06:00 PM	56.4	81.2	50.7
06:00 PM - 07:00 PM	54.5	74.5	50.0
07:00 PM - 08:00 PM	52.9	70.2	48.7
08:00 PM - 09:00 PM	53.5	69.5	50.0
09:00 PM - 10:00 PM	53.1	72.0	49.1
10:00 PM - 10:05 PM	51.1	60.0	48.3
10:05 PM - 10:10 PM	51.2	59.4	49.0
10:10 PM - 10:15 PM	54.3	71.7	48.7
10:15 PM - 10:20 PM	51.1	62.2	48.5
10:20 PM - 10:25 PM	51.3	61.9	48.8
10:25 PM - 10:30 PM	57.4	75.2	48.2
10:30 PM - 10:35 PM	55.6	69.3	48.0
10:35 PM - 10:40 PM	51.8	65.1	49.0
10:40 PM - 10:45 PM	54.4	69.3	48.2
10:45 PM - 10:50 PM	54.5	69.6	48.9
10:50 PM - 10:55 PM	52.1	65.4	47.8
10:55 PM - 11:00 PM	50.5	60.5	47.5
11:00 PM - 11:05 PM	51.6	60.3	48.1
11:05 PM - 11:10 PM	48.9	59.2	45.9
11:10 PM - 11:15 PM	51.9	66.1	46.8
11:15 PM - 11:20 PM	50.7	63.5	46.2
11:20 PM - 11:25 PM	50.6	58.3	47.1
11:25 PM - 11:30 PM	50.1	59.8	47.3
11:30 PM - 11:35 PM	51.6	63.4	48.0
11:35 PM - 11:40 PM	51.7	62.8	49.2
11:40 PM - 11:45 PM	50.2	62.0	47.4
11:45 PM - 11:50 PM	51.3	62.1	47.1
11:50 PM - 11:55 PM	48.9	60.6	45.3
11:55 PM - 12:00 AM	50.5	60.4	46.2
12:00 AM - 12:05 AM	48.7	58.1	45.7
12:05 AM - 12:10 AM	50.5	62.9	46.6
12:10 AM - 12:15 AM	49.4	65.7	45.5
12:15 AM - 12:20 AM	48.2	59.5	44.7
12:20 AM - 12:25 AM	49.3	62.9	45.8

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963976-1

Sample No. : 2432544-1
Parameter : Noise
Location : บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	48.9	61.3	44.8
12:30 AM - 12:35 AM	47.5	53.8	44.7
12:35 AM - 12:40 AM	48.4	61.8	44.8
12:40 AM - 12:45 AM	49.6	63.1	44.4
12:45 AM - 12:50 AM	48.3	58.9	45.5
12:50 AM - 12:55 AM	56.5	74.7	44.9
12:55 AM - 01:00 AM	47.4	60.4	44.0
01:00 AM - 01:05 AM	47.6	61.1	43.8
01:05 AM - 01:10 AM	46.4	54.5	43.7
01:10 AM - 01:15 AM	48.1	54.7	45.2
01:15 AM - 01:20 AM	49.7	63.0	45.2
01:20 AM - 01:25 AM	51.0	58.2	48.7
01:25 AM - 01:30 AM	48.9	57.8	46.2
01:30 AM - 01:35 AM	49.5	55.2	47.4
01:35 AM - 01:40 AM	50.3	56.5	47.3
01:40 AM - 01:45 AM	51.4	60.6	47.0
01:45 AM - 01:50 AM	53.1	71.7	48.3
01:50 AM - 01:55 AM	50.5	62.4	47.2
01:55 AM - 02:00 AM	49.2	62.1	44.8
02:00 AM - 02:05 AM	51.9	62.3	47.0
02:05 AM - 02:10 AM	49.8	61.4	46.1
02:10 AM - 02:15 AM	50.4	55.1	47.0
02:15 AM - 02:20 AM	50.2	65.6	44.2
02:20 AM - 02:25 AM	48.5	54.0	44.9
02:25 AM - 02:30 AM	51.4	66.8	46.0
02:30 AM - 02:35 AM	47.0	57.3	43.9
02:35 AM - 02:40 AM	47.5	61.2	43.8
02:40 AM - 02:45 AM	48.8	59.6	44.6
02:45 AM - 02:50 AM	48.2	60.6	44.9
02:50 AM - 02:55 AM	47.5	55.3	45.2
02:55 AM - 03:00 AM	45.5	53.6	44.8
03:00 AM - 03:05 AM	46.8	57.2	44.3
03:05 AM - 03:10 AM	49.2	62.1	45.2
03:10 AM - 03:15 AM	47.1	57.3	43.3
03:15 AM - 03:20 AM	47.3	53.3	43.1
03:20 AM - 03:25 AM	47.6	57.2	43.3
03:25 AM - 03:30 AM	48.5	60.2	44.6
03:30 AM - 03:35 AM	52.1	69.9	45.2
03:35 AM - 03:40 AM	49.8	60.3	44.6
03:40 AM - 03:45 AM	49.6	57.3	45.6

Page 2 of 3

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963976-1

Sample No. 2432544-1
Parameter Noise
Location บ้านนาบตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.8	60.7	47.0
03:50 AM - 03:55 AM	49.7	55.4	46.4
03:55 AM - 04:00 AM	48.0	56.4	43.9
04:00 AM - 04:05 AM	48.5	55.4	44.0
04:05 AM - 04:10 AM	49.8	59.6	44.9
04:10 AM - 04:15 AM	48.1	54.6	43.7
04:15 AM - 04:20 AM	47.7	54.8	43.5
04:20 AM - 04:25 AM	48.2	57.9	44.3
04:25 AM - 04:30 AM	52.0	70.8	43.1
04:30 AM - 04:35 AM	48.9	63.3	45.3
04:35 AM - 04:40 AM	47.4	55.2	43.4
04:40 AM - 04:45 AM	47.1	53.8	44.0
04:45 AM - 04:50 AM	48.4	55.5	45.0
04:50 AM - 04:55 AM	48.8	55.5	45.3
04:55 AM - 05:00 AM	48.2	59.6	44.2
05:00 AM - 05:05 AM	47.5	56.0	42.9
05:05 AM - 05:10 AM	47.0	53.8	43.0
05:10 AM - 05:15 AM	47.9	57.3	43.2
05:15 AM - 05:20 AM	50.5	63.3	42.8
05:20 AM - 05:25 AM	48.5	55.5	44.0
05:25 AM - 05:30 AM	49.1	55.7	43.8
05:30 AM - 05:35 AM	49.5	55.5	44.7
05:35 AM - 05:40 AM	49.1	55.4	44.5
05:40 AM - 05:45 AM	48.3	54.8	43.6
05:45 AM - 05:50 AM	50.0	60.5	44.1
05:50 AM - 05:55 AM	48.7	58.5	44.2
05:55 AM - 06:00 AM	48.6	56.8	44.6
06:00 AM - 07:00 AM	52.4	80.6	44.3
07:00 AM - 08:00 AM	51.3	65.3	47.2
08:00 AM - 09:00 AM	55.1	73.8	49.9
09:00 AM - 10:00 AM	55.3	71.4	50.2
10:00 AM - 11:00 AM	53.1	79.6	47.4

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดได้จากอุปกรณ์การโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963977-1

Sample No. 2432544-2
Parameter Noise
Location บ้านนาบตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.8	69.1	47.0
12:00 PM - 01:00 PM	53.6	68.5	48.1
01:00 PM - 02:00 PM	53.9	72.6	47.6
02:00 PM - 03:00 PM	51.7	71.3	46.6
03:00 PM - 04:00 PM	51.8	71.5	46.6
04:00 PM - 05:00 PM	51.9	67.4	47.4
05:00 PM - 06:00 PM	53.2	69.3	47.7
06:00 PM - 07:00 PM	55.9	76.5	49.5
07:00 PM - 08:00 PM	54.4	76.2	49.4
08:00 PM - 09:00 PM	56.2	83.7	50.8
09:00 PM - 10:00 PM	52.5	78.2	49.1
10:00 PM - 10:05 PM	50.2	57.9	48.3
10:05 PM - 10:10 PM	51.0	62.7	47.9
10:10 PM - 10:15 PM	52.3	66.6	49.2
10:15 PM - 10:20 PM	53.2	66.8	49.3
10:20 PM - 10:25 PM	51.0	59.9	48.1
10:25 PM - 10:30 PM	54.2	68.3	48.2
10:30 PM - 10:35 PM	52.5	64.2	48.9
10:35 PM - 10:40 PM	51.5	62.9	49.3
10:40 PM - 10:45 PM	50.8	58.1	48.9
10:45 PM - 10:50 PM	51.2	63.3	48.9
10:50 PM - 10:55 PM	52.4	68.5	49.6
10:55 PM - 11:00 PM	51.1	60.1	48.8
11:00 PM - 11:05 PM	51.8	59.5	49.3
11:05 PM - 11:10 PM	50.7	58.1	48.7
11:10 PM - 11:15 PM	50.9	55.4	48.7
11:15 PM - 11:20 PM	51.5	61.2	48.8
11:20 PM - 11:25 PM	50.4	54.5	48.6
11:25 PM - 11:30 PM	50.6	56.8	48.7
11:30 PM - 11:35 PM	51.6	60.9	48.8
11:35 PM - 11:40 PM	51.4	65.3	48.0
11:40 PM - 11:45 PM	50.6	59.2	48.0
11:45 PM - 11:50 PM	50.1	60.2	47.4
11:50 PM - 11:55 PM	51.2	64.4	47.7
11:55 PM - 12:00 AM	51.4	62.4	48.4
12:00 AM - 12:05 AM	50.2	61.2	46.7
12:05 AM - 12:10 AM	54.2	72.2	46.7
12:10 AM - 12:15 AM	52.1	69.8	46.9
12:15 AM - 12:20 AM	49.7	67.5	45.7
12:20 AM - 12:25 AM	48.8	55.9	46.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963977-1

Sample No.: 2432544-2
Parameter: Noise
Location: บ้านนาบตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date: Apr 03 - 04, 2024
Measurement by: Chatchai Sukpia
Sound Level Meter: 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	50.2	62.5	46.5
12:30 AM - 12:35 AM	49.7	62.9	45.6
12:35 AM - 12:40 AM	48.6	53.6	45.8
12:40 AM - 12:45 AM	47.8	56.8	44.6
12:45 AM - 12:50 AM	48.1	53.3	45.4
12:50 AM - 12:55 AM	49.9	66.3	44.7
12:55 AM - 01:00 AM	49.1	62.6	45.1
01:00 AM - 01:05 AM	48.2	59.7	45.7
01:05 AM - 01:10 AM	48.3	54.3	46.1
01:10 AM - 01:15 AM	47.4	58.5	43.9
01:15 AM - 01:20 AM	48.1	57.2	45.7
01:20 AM - 01:25 AM	49.5	65.1	44.8
01:25 AM - 01:30 AM	50.0	62.9	46.0
01:30 AM - 01:35 AM	48.8	64.7	44.8
01:35 AM - 01:40 AM	50.7	67.3	46.1
01:40 AM - 01:45 AM	49.0	57.2	45.8
01:45 AM - 01:50 AM	49.2	56.8	46.1
01:50 AM - 01:55 AM	48.1	53.4	44.1
01:55 AM - 02:00 AM	47.5	64.9	43.5
02:00 AM - 02:05 AM	48.2	58.1	44.9
02:05 AM - 02:10 AM	51.0	72.7	45.1
02:10 AM - 02:15 AM	51.8	68.0	44.5
02:15 AM - 02:20 AM	49.6	60.5	44.4
02:20 AM - 02:25 AM	57.0	83.4	44.8
02:25 AM - 02:30 AM	48.2	60.7	44.8
02:30 AM - 02:35 AM	47.7	58.9	43.4
02:35 AM - 02:40 AM	45.4	52.8	42.5
02:40 AM - 02:45 AM	49.3	66.0	44.8
02:45 AM - 02:50 AM	49.5	65.1	45.8
02:50 AM - 02:55 AM	48.3	53.0	44.9
02:55 AM - 03:00 AM	48.7	55.0	45.6
03:00 AM - 03:05 AM	49.5	54.8	46.5
03:05 AM - 03:10 AM	49.2	56.4	45.8
03:10 AM - 03:15 AM	58.1	72.9	48.5
03:15 AM - 03:20 AM	52.1	69.3	44.9
03:20 AM - 03:25 AM	48.4	56.8	44.5
03:25 AM - 03:30 AM	56.6	74.5	44.3
03:30 AM - 03:35 AM	48.9	61.0	45.1
03:35 AM - 03:40 AM	49.9	66.3	44.9
03:40 AM - 03:45 AM	45.9	54.3	43.2

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963977-1

Sample No.: 2432544-2
Parameter: Noise
Location: บ้านนาบตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date: Apr 03 - 04, 2024
Measurement by: Chatchai Sukpia
Sound Level Meter: 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	46.6	55.1	43.6
03:50 AM - 03:55 AM	45.9	53.5	43.6
03:55 AM - 04:00 AM	46.7	53.7	44.4
04:00 AM - 04:05 AM	46.3	54.4	43.6
04:05 AM - 04:10 AM	46.6	50.9	44.0
04:10 AM - 04:15 AM	46.6	53.4	43.2
04:15 AM - 04:20 AM	46.7	53.5	43.6
04:20 AM - 04:25 AM	47.0	53.3	43.3
04:25 AM - 04:30 AM	47.9	57.6	42.8
04:30 AM - 04:35 AM	46.7	53.7	44.4
04:35 AM - 04:40 AM	45.2	59.4	41.8
04:40 AM - 04:45 AM	47.9	61.0	42.8
04:45 AM - 04:50 AM	44.9	52.0	42.4
04:50 AM - 04:55 AM	44.7	54.8	41.1
04:55 AM - 05:00 AM	46.2	63.7	41.9
05:00 AM - 05:05 AM	44.8	52.4	41.7
05:05 AM - 05:10 AM	55.4	69.2	41.3
05:10 AM - 05:15 AM	47.9	63.7	42.4
05:15 AM - 05:20 AM	45.6	54.6	42.2
05:20 AM - 05:25 AM	45.2	56.8	42.1
05:25 AM - 05:30 AM	50.6	62.9	42.5
05:30 AM - 05:35 AM	50.8	63.4	42.2
05:35 AM - 05:40 AM	48.1	62.9	42.6
05:40 AM - 05:45 AM	48.1	64.1	42.4
05:45 AM - 05:50 AM	49.3	63.5	43.1
05:50 AM - 05:55 AM	48.5	61.3	44.1
05:55 AM - 06:00 AM	49.3	64.8	44.2
06:00 AM - 07:00 AM	51.0	78.4	44.8
07:00 AM - 08:00 AM	52.6	71.4	48.3
08:00 AM - 09:00 AM	55.9	74.7	49.2
09:00 AM - 10:00 AM	55.0	75.2	49.5
10:00 AM - 11:00 AM	52.6	74.7	47.5

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. PROTECT. PROMOTE. PROGRESS.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS. PROTECT. PROMOTE. PROGRESS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963978-1

Sample No. 2432544-3
Parameter Noise
Location บ้านนาเกลือ (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.7	75.3	53.0
12:00 PM - 01:00 PM	53.0	59.8	52.5
01:00 PM - 02:00 PM	53.1	62.2	52.4
02:00 PM - 03:00 PM	53.1	61.1	52.6
03:00 PM - 04:00 PM	53.6	58.7	53.1
04:00 PM - 05:00 PM	54.1	62.6	53.4
05:00 PM - 06:00 PM	56.7	68.4	53.9
06:00 PM - 07:00 PM	58.7	70.4	53.9
07:00 PM - 08:00 PM	58.8	70.5	55.4
08:00 PM - 09:00 PM	56.5	68.4	54.1
09:00 PM - 10:00 PM	54.7	67.2	53.5
10:00 PM - 10:05 PM	54.0	62.1	53.4
10:05 PM - 10:10 PM	54.1	62.1	53.4
10:10 PM - 10:15 PM	54.0	58.4	53.5
10:15 PM - 10:20 PM	54.4	64.2	53.5
10:20 PM - 10:25 PM	54.3	63.1	53.5
10:25 PM - 10:30 PM	53.8	61.1	53.4
10:30 PM - 10:35 PM	54.2	62.0	53.4
10:35 PM - 10:40 PM	54.8	63.1	53.7
10:40 PM - 10:45 PM	54.7	62.7	53.6
10:45 PM - 10:50 PM	54.1	61.4	53.4
10:50 PM - 10:55 PM	54.8	63.1	53.6
10:55 PM - 11:00 PM	54.1	61.9	53.4
11:00 PM - 11:05 PM	53.7	61.1	53.1
11:05 PM - 11:10 PM	53.4	55.5	53.0
11:10 PM - 11:15 PM	53.5	58.1	53.1
11:15 PM - 11:20 PM	53.5	54.7	53.1
11:20 PM - 11:25 PM	48.4	49.7	47.9
11:25 PM - 11:30 PM	49.0	55.0	48.3
11:30 PM - 11:35 PM	53.5	58.1	52.9
11:35 PM - 11:40 PM	53.8	60.4	53.0
11:40 PM - 11:45 PM	53.5	64.1	52.9
11:45 PM - 11:50 PM	53.5	58.1	52.9
11:50 PM - 11:55 PM	53.3	57.0	53.0
11:55 PM - 12:00 AM	53.4	58.6	52.9
12:00 AM - 12:05 AM	50.1	51.3	49.7
12:05 AM - 12:10 AM	53.1	54.3	52.8
12:10 AM - 12:15 AM	53.3	54.6	52.9
12:15 AM - 12:20 AM	53.4	54.3	53.0
12:20 AM - 12:25 AM	53.5	54.5	53.2

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963978-1

Sample No. 2432544-3
Parameter Noise
Location บ้านนาเกลือ (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	49.3	51.1	49.0
12:30 AM - 12:35 AM	53.2	55.9	52.8
12:35 AM - 12:40 AM	53.1	54.4	52.7
12:40 AM - 12:45 AM	53.2	54.4	52.9
12:45 AM - 12:50 AM	53.0	54.1	52.7
12:50 AM - 12:55 AM	52.8	53.9	52.4
12:55 AM - 01:00 AM	49.8	56.5	49.4
01:00 AM - 01:05 AM	49.7	51.1	49.4
01:05 AM - 01:10 AM	49.9	51.2	49.5
01:10 AM - 01:15 AM	49.0	50.4	48.6
01:15 AM - 01:20 AM	53.3	60.3	52.7
01:20 AM - 01:25 AM	50.3	51.3	49.9
01:25 AM - 01:30 AM	53.3	54.3	52.9
01:30 AM - 01:35 AM	53.2	54.7	52.9
01:35 AM - 01:40 AM	53.0	54.1	52.7
01:40 AM - 01:45 AM	53.1	57.9	52.7
01:45 AM - 01:50 AM	49.3	52.3	48.9
01:50 AM - 01:55 AM	48.9	50.1	48.6
01:55 AM - 02:00 AM	50.4	51.5	50.0
02:00 AM - 02:05 AM	48.4	49.6	48.0
02:05 AM - 02:10 AM	49.8	50.9	49.4
02:10 AM - 02:15 AM	50.3	51.5	49.9
02:15 AM - 02:20 AM	49.4	50.7	49.1
02:20 AM - 02:25 AM	50.3	51.5	50.0
02:25 AM - 02:30 AM	49.2	50.3	48.9
02:30 AM - 02:35 AM	53.0	54.0	52.7
02:35 AM - 02:40 AM	52.9	54.0	52.6
02:40 AM - 02:45 AM	50.2	51.5	49.8
02:45 AM - 02:50 AM	49.4	50.8	49.1
02:50 AM - 02:55 AM	48.8	50.1	48.5
02:55 AM - 03:00 AM	50.1	51.4	49.7
03:00 AM - 03:05 AM	48.9	49.9	48.6
03:05 AM - 03:10 AM	50.6	51.7	50.3
03:10 AM - 03:15 AM	50.4	51.6	50.0
03:15 AM - 03:20 AM	53.1	54.2	52.7
03:20 AM - 03:25 AM	48.9	51.9	48.6
03:25 AM - 03:30 AM	49.4	50.8	49.1
03:30 AM - 03:35 AM	50.1	51.2	49.8
03:35 AM - 03:40 AM	48.9	50.1	48.5
03:40 AM - 03:45 AM	53.1	55.3	52.6

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963978-1

Sample No. 2432544-3
Parameter Noise
Location บ้านนาตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	53.2	56.3	52.7
03:50 AM - 03:55 AM	48.8	51.0	48.3
03:55 AM - 04:00 AM	49.6	51.6	49.1
04:00 AM - 04:05 AM	53.3	55.6	52.8
04:05 AM - 04:10 AM	47.9	51.4	47.5
04:10 AM - 04:15 AM	48.7	53.0	48.3
04:15 AM - 04:20 AM	49.5	52.2	49.0
04:20 AM - 04:25 AM	49.2	51.5	48.8
04:25 AM - 04:30 AM	49.8	51.8	49.4
04:30 AM - 04:35 AM	50.8	55.0	50.3
04:35 AM - 04:40 AM	49.0	53.7	48.5
04:40 AM - 04:45 AM	53.8	56.4	53.4
04:45 AM - 04:50 AM	53.8	55.4	53.5
04:50 AM - 04:55 AM	49.3	56.1	48.7
04:55 AM - 05:00 AM	53.7	57.0	53.4
05:00 AM - 05:05 AM	48.4	52.2	47.9
05:05 AM - 05:10 AM	53.9	59.0	53.4
05:10 AM - 05:15 AM	54.3	67.9	53.2
05:15 AM - 05:20 AM	48.8	54.8	48.4
05:20 AM - 05:25 AM	53.5	55.4	53.0
05:25 AM - 05:30 AM	49.0	51.9	48.5
05:30 AM - 05:35 AM	48.7	51.2	48.3
05:35 AM - 05:40 AM	49.0	52.4	48.4
05:40 AM - 05:45 AM	53.6	57.3	53.1
05:45 AM - 05:50 AM	54.0	60.9	53.3
05:50 AM - 05:55 AM	53.6	56.7	53.2
05:55 AM - 06:00 AM	53.4	55.0	53.0
06:00 AM - 07:00 AM	53.4	62.0	52.9
07:00 AM - 08:00 AM	53.0	58.2	52.6
08:00 AM - 09:00 AM	53.4	62.6	52.9
09:00 AM - 10:00 AM	53.3	61.1	52.7
10:00 AM - 11:00 AM	52.9	63.4	52.3

Reference Method :
1. ISO 1996-1
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963979-1

Sample No. 2432544-4
Parameter Noise
Location บ้านนาตา (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.4	73.5	51.8
12:00 PM - 01:00 PM	54.7	72.4	49.5
01:00 PM - 02:00 PM	52.1	81.0	46.7
02:00 PM - 03:00 PM	53.1	84.5	46.9
03:00 PM - 04:00 PM	52.7	74.5	48.0
04:00 PM - 05:00 PM	54.7	73.9	50.4
05:00 PM - 06:00 PM	54.0	71.3	49.6
06:00 PM - 07:00 PM	54.8	78.2	50.8
07:00 PM - 08:00 PM	53.2	74.6	49.2
08:00 PM - 09:00 PM	53.1	69.4	48.6
09:00 PM - 10:00 PM	55.0	73.3	51.6
10:00 PM - 10:05 PM	54.8	70.8	48.2
10:05 PM - 10:10 PM	57.1	65.1	49.9
10:10 PM - 10:15 PM	55.7	65.3	54.5
10:15 PM - 10:20 PM	55.0	66.2	50.6
10:20 PM - 10:25 PM	54.7	63.8	50.5
10:25 PM - 10:30 PM	58.6	67.9	57.3
10:30 PM - 10:35 PM	55.2	67.8	48.6
10:35 PM - 10:40 PM	51.5	63.2	48.3
10:40 PM - 10:45 PM	58.6	69.4	57.4
10:45 PM - 10:50 PM	50.8	61.8	47.9
10:50 PM - 10:55 PM	57.6	62.4	49.6
10:55 PM - 11:00 PM	56.8	61.8	48.4
11:00 PM - 11:05 PM	56.4	63.6	47.4
11:05 PM - 11:10 PM	57.3	61.2	56.3
11:10 PM - 11:15 PM	53.9	62.4	45.6
11:15 PM - 11:20 PM	51.5	57.9	46.2
11:20 PM - 11:25 PM	57.0	63.8	56.3
11:25 PM - 11:30 PM	57.7	65.2	56.5
11:30 PM - 11:35 PM	55.9	59.5	48.6
11:35 PM - 11:40 PM	52.0	63.3	47.8
11:40 PM - 11:45 PM	58.6	72.0	55.9
11:45 PM - 11:50 PM	55.2	65.2	48.0
11:50 PM - 11:55 PM	52.3	65.2	47.8
11:55 PM - 12:00 AM	51.8	59.9	48.1
12:00 AM - 12:05 AM	51.7	64.6	47.9
12:05 AM - 12:10 AM	51.4	58.1	47.5
12:10 AM - 12:15 AM	57.5	64.4	56.4
12:15 AM - 12:20 AM	49.3	57.5	46.0
12:20 AM - 12:25 AM	49.7	56.9	46.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963979-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432544-4
Parameter Noise
Location บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	50.8	63.6	46.3
12:30 AM - 12:35 AM	50.0	60.8	45.9
12:35 AM - 12:40 AM	54.3	66.4	49.6
12:40 AM - 12:45 AM	48.2	54.0	44.7
12:45 AM - 12:50 AM	55.1	73.6	46.0
12:50 AM - 12:55 AM	47.1	53.6	43.7
12:55 AM - 01:00 AM	49.5	64.2	45.2
01:00 AM - 01:05 AM	47.5	58.2	45.4
01:05 AM - 01:10 AM	50.3	72.8	43.9
01:10 AM - 01:15 AM	49.9	65.1	45.2
01:15 AM - 01:20 AM	45.6	52.8	43.3
01:20 AM - 01:25 AM	47.5	57.3	44.6
01:25 AM - 01:30 AM	47.2	53.8	44.3
01:30 AM - 01:35 AM	46.6	54.4	43.4
01:35 AM - 01:40 AM	46.8	57.4	43.7
01:40 AM - 01:45 AM	48.8	60.8	44.6
01:45 AM - 01:50 AM	47.3	57.8	44.5
01:50 AM - 01:55 AM	47.8	55.0	45.3
01:55 AM - 02:00 AM	49.9	55.9	48.5
02:00 AM - 02:05 AM	51.8	69.9	45.8
02:05 AM - 02:10 AM	48.3	58.4	45.9
02:10 AM - 02:15 AM	49.4	57.0	46.6
02:15 AM - 02:20 AM	49.2	58.6	46.0
02:20 AM - 02:25 AM	52.2	73.1	46.0
02:25 AM - 02:30 AM	51.7	68.5	45.5
02:30 AM - 02:35 AM	48.1	54.5	45.9
02:35 AM - 02:40 AM	48.0	57.8	45.5
02:40 AM - 02:45 AM	47.6	51.5	45.5
02:45 AM - 02:50 AM	47.6	55.2	45.1
02:50 AM - 02:55 AM	46.5	50.5	44.5
02:55 AM - 03:00 AM	48.0	54.4	45.9
03:00 AM - 03:05 AM	48.2	57.1	46.1
03:05 AM - 03:10 AM	47.8	58.6	45.5
03:10 AM - 03:15 AM	46.9	51.8	44.6
03:15 AM - 03:20 AM	47.6	57.1	44.6
03:20 AM - 03:25 AM	49.3	66.4	44.0
03:25 AM - 03:30 AM	45.0	52.0	42.9
03:30 AM - 03:35 AM	45.6	63.0	42.9
03:35 AM - 03:40 AM	47.7	63.5	43.4
03:40 AM - 03:45 AM	45.0	53.6	42.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or data herein may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963979-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432544-4
Parameter Noise
Location บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.0	61.8	45.5
03:50 AM - 03:55 AM	46.2	60.6	42.8
03:55 AM - 04:00 AM	49.0	61.6	42.8
04:00 AM - 04:05 AM	45.4	59.9	42.8
04:05 AM - 04:10 AM	44.1	54.0	41.5
04:10 AM - 04:15 AM	45.6	53.6	42.7
04:15 AM - 04:20 AM	50.7	58.3	47.7
04:20 AM - 04:25 AM	47.4	59.7	42.2
04:25 AM - 04:30 AM	52.1	66.3	47.5
04:30 AM - 04:35 AM	48.1	60.3	42.9
04:35 AM - 04:40 AM	51.6	64.1	44.8
04:40 AM - 04:45 AM	49.8	67.2	43.5
04:45 AM - 04:50 AM	49.2	62.8	43.7
04:50 AM - 04:55 AM	50.8	72.7	43.0
04:55 AM - 05:00 AM	48.5	60.5	43.1
05:00 AM - 05:05 AM	50.4	66.5	46.2
05:05 AM - 05:10 AM	47.0	61.1	43.0
05:10 AM - 05:15 AM	50.8	61.9	47.3
05:15 AM - 05:20 AM	52.0	64.2	48.1
05:20 AM - 05:25 AM	54.9	66.9	50.0
05:25 AM - 05:30 AM	53.5	64.6	45.7
05:30 AM - 05:35 AM	53.8	65.6	46.6
05:35 AM - 05:40 AM	49.5	63.9	45.4
05:40 AM - 05:45 AM	53.9	63.1	41.7
05:45 AM - 05:50 AM	51.4	63.5	46.4
05:50 AM - 05:55 AM	52.6	62.9	47.5
05:55 AM - 06:00 AM	52.9	68.4	47.4
06:00 AM - 07:00 AM	53.4	66.5	49.0
07:00 AM - 08:00 AM	53.6	75.8	48.4
08:00 AM - 09:00 AM	52.5	71.6	47.5
09:00 AM - 10:00 AM	52.7	75.6	47.8
10:00 AM - 11:00 AM	51.9	75.8	47.8

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or data herein may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963980-1

Sample No. : 2432544-5
Parameter : Noise
Location : บ้านนาสวน (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764922

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.9	77.1	49.6
12:00 PM - 01:00 PM	54.9	81.6	50.7
01:00 PM - 02:00 PM	55.1	67.3	52.8
02:00 PM - 03:00 PM	52.9	68.9	49.5
03:00 PM - 04:00 PM	54.5	74.2	49.7
04:00 PM - 05:00 PM	53.6	77.2	48.8
05:00 PM - 06:00 PM	54.8	70.8	51.8
06:00 PM - 07:00 PM	53.6	74.0	50.6
07:00 PM - 08:00 PM	53.5	65.4	51.6
08:00 PM - 09:00 PM	52.5	72.3	49.0
09:00 PM - 10:00 PM	50.5	74.8	47.5
10:00 PM - 10:05 PM	50.4	57.7	48.2
10:05 PM - 10:10 PM	52.2	58.6	47.5
10:10 PM - 10:15 PM	49.3	65.3	47.2
10:15 PM - 10:20 PM	49.1	57.4	47.2
10:20 PM - 10:25 PM	49.4	59.0	47.5
10:25 PM - 10:30 PM	48.4	52.2	46.9
10:30 PM - 10:35 PM	48.6	54.9	46.9
10:35 PM - 10:40 PM	51.5	63.7	47.3
10:40 PM - 10:45 PM	52.3	64.0	47.5
10:45 PM - 10:50 PM	50.9	61.5	47.8
10:50 PM - 10:55 PM	51.2	59.5	48.6
10:55 PM - 11:00 PM	51.1	59.8	47.7
11:00 PM - 11:05 PM	50.8	57.8	47.9
11:05 PM - 11:10 PM	52.4	63.1	48.6
11:10 PM - 11:15 PM	53.4	67.4	48.2
11:15 PM - 11:20 PM	51.8	64.7	48.3
11:20 PM - 11:25 PM	55.6	68.5	49.0
11:25 PM - 11:30 PM	53.9	63.7	49.6
11:30 PM - 11:35 PM	52.1	60.1	49.5
11:35 PM - 11:40 PM	52.7	63.3	49.2
11:40 PM - 11:45 PM	55.8	68.8	52.8
11:45 PM - 11:50 PM	52.5	61.1	49.0
11:50 PM - 11:55 PM	56.2	67.3	51.5
11:55 PM - 12:00 AM	53.0	64.4	49.6
12:00 AM - 12:05 AM	57.9	67.2	53.9
12:05 AM - 12:10 AM	52.7	65.2	46.7
12:10 AM - 12:15 AM	52.1	64.0	48.1
12:15 AM - 12:20 AM	53.5	69.6	47.9
12:20 AM - 12:25 AM	52.8	64.4	48.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963980-1

Sample No. : 2432544-5
Parameter : Noise
Location : บ้านนาสวน (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764922

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	53.7	65.9	49.4
12:30 AM - 12:35 AM	54.4	66.4	49.6
12:35 AM - 12:40 AM	51.9	62.4	48.5
12:40 AM - 12:45 AM	54.1	66.1	49.4
12:45 AM - 12:50 AM	52.3	66.8	49.1
12:50 AM - 12:55 AM	55.5	70.8	49.2
12:55 AM - 01:00 AM	52.4	64.1	49.5
01:00 AM - 01:05 AM	54.4	66.4	49.7
01:05 AM - 01:10 AM	54.9	69.9	48.8
01:10 AM - 01:15 AM	55.6	68.2	49.3
01:15 AM - 01:20 AM	55.1	72.1	50.6
01:20 AM - 01:25 AM	55.6	67.4	50.9
01:25 AM - 01:30 AM	57.9	82.5	49.8
01:30 AM - 01:35 AM	53.4	62.9	50.6
01:35 AM - 01:40 AM	52.5	62.0	49.7
01:40 AM - 01:45 AM	53.5	71.0	48.8
01:45 AM - 01:50 AM	54.4	64.6	49.2
01:50 AM - 01:55 AM	56.4	69.0	50.2
01:55 AM - 02:00 AM	53.3	69.7	47.3
02:00 AM - 02:05 AM	54.4	68.0	47.2
02:05 AM - 02:10 AM	52.3	67.3	46.8
02:10 AM - 02:15 AM	51.6	66.0	47.1
02:15 AM - 02:20 AM	51.2	59.0	47.5
02:20 AM - 02:25 AM	53.5	64.7	47.7
02:25 AM - 02:30 AM	51.0	61.8	46.7
02:30 AM - 02:35 AM	51.9	64.8	47.5
02:35 AM - 02:40 AM	49.9	60.2	46.9
02:40 AM - 02:45 AM	56.7	74.0	47.6
02:45 AM - 02:50 AM	54.6	69.2	48.5
02:50 AM - 02:55 AM	50.8	61.2	47.0
02:55 AM - 03:00 AM	50.1	63.0	46.8
03:00 AM - 03:05 AM	52.0	64.6	47.0
03:05 AM - 03:10 AM	48.8	58.5	45.5
03:10 AM - 03:15 AM	48.6	55.9	45.6
03:15 AM - 03:20 AM	52.7	68.5	46.5
03:20 AM - 03:25 AM	54.5	67.9	47.4
03:25 AM - 03:30 AM	50.6	63.6	46.2
03:30 AM - 03:35 AM	51.8	67.3	46.4
03:35 AM - 03:40 AM	51.3	65.4	47.1
03:40 AM - 03:45 AM	51.6	70.0	45.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963980-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432544-5
Parameter Noise
Location บ้านนาบว (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	52.8	71.6	45.7
03:50 AM - 03:55 AM	48.7	61.9	45.3
03:55 AM - 04:00 AM	49.8	62.0	46.2
04:00 AM - 04:05 AM	50.5	65.8	45.6
04:05 AM - 04:10 AM	54.4	76.6	47.0
04:10 AM - 04:15 AM	53.9	81.2	47.6
04:15 AM - 04:20 AM	54.0	77.0	45.5
04:20 AM - 04:25 AM	51.5	62.8	47.6
04:25 AM - 04:30 AM	52.1	64.5	46.3
04:30 AM - 04:35 AM	49.8	61.8	46.5
04:35 AM - 04:40 AM	49.2	61.4	45.6
04:40 AM - 04:45 AM	49.4	63.1	45.8
04:45 AM - 04:50 AM	52.2	66.1	46.6
04:50 AM - 04:55 AM	52.6	70.3	47.3
04:55 AM - 05:00 AM	50.2	65.5	45.3
05:00 AM - 05:05 AM	49.0	61.8	45.9
05:05 AM - 05:10 AM	49.6	61.1	46.4
05:10 AM - 05:15 AM	51.1	64.3	45.9
05:15 AM - 05:20 AM	51.3	66.2	46.4
05:20 AM - 05:25 AM	50.1	63.9	46.3
05:25 AM - 05:30 AM	49.8	65.6	46.8
05:30 AM - 05:35 AM	50.3	62.0	47.2
05:35 AM - 05:40 AM	50.3	65.2	47.0
05:40 AM - 05:45 AM	52.1	67.8	47.7
05:45 AM - 05:50 AM	51.2	67.8	46.2
05:50 AM - 05:55 AM	52.9	66.1	47.3
05:55 AM - 06:00 AM	49.6	62.1	44.9
06:00 AM - 07:00 AM	53.3	73.1	46.3
07:00 AM - 08:00 AM	52.4	68.0	47.8
08:00 AM - 09:00 AM	55.1	77.4	48.7
09:00 AM - 10:00 AM	54.1	78.2	49.1
10:00 AM - 11:00 AM	54.9	83.2	50.1

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Kh. A. Pissakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963981-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432544-6
Parameter Noise
Location บ้านนาบว (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.9	69.1	47.4
12:00 PM - 01:00 PM	54.2	72.7	48.1
01:00 PM - 02:00 PM	52.6	72.9	47.0
02:00 PM - 03:00 PM	55.1	82.3	49.1
03:00 PM - 04:00 PM	54.3	84.3	48.1
04:00 PM - 05:00 PM	53.4	72.2	48.8
05:00 PM - 06:00 PM	53.4	72.3	47.8
06:00 PM - 07:00 PM	53.8	70.2	48.8
07:00 PM - 08:00 PM	54.6	74.4	49.3
08:00 PM - 09:00 PM	54.2	71.7	50.9
09:00 PM - 10:00 PM	54.0	71.9	51.3
10:00 PM - 10:05 PM	52.9	67.1	48.0
10:05 PM - 10:10 PM	51.7	63.7	48.4
10:10 PM - 10:15 PM	52.5	66.1	48.8
10:15 PM - 10:20 PM	49.7	56.1	48.1
10:20 PM - 10:25 PM	53.9	70.6	48.3
10:25 PM - 10:30 PM	51.9	63.4	46.5
10:30 PM - 10:35 PM	52.6	67.6	47.4
10:35 PM - 10:40 PM	52.9	69.1	48.0
10:40 PM - 10:45 PM	50.6	59.0	48.3
10:45 PM - 10:50 PM	52.1	64.8	49.1
10:50 PM - 10:55 PM	52.6	60.5	49.6
10:55 PM - 11:00 PM	51.9	56.9	49.9
11:00 PM - 11:05 PM	52.5	60.6	50.0
11:05 PM - 11:10 PM	52.9	61.8	50.1
11:10 PM - 11:15 PM	56.8	73.5	50.2
11:15 PM - 11:20 PM	54.2	57.9	51.8
11:20 PM - 11:25 PM	52.9	58.0	49.6
11:25 PM - 11:30 PM	51.2	59.0	48.5
11:30 PM - 11:35 PM	54.7	66.3	49.8
11:35 PM - 11:40 PM	52.8	59.9	48.1
11:40 PM - 11:45 PM	51.9	60.9	49.1
11:45 PM - 11:50 PM	51.1	68.5	47.9
11:50 PM - 11:55 PM	52.4	59.4	49.1
11:55 PM - 12:00 AM	51.9	59.1	49.3
12:00 AM - 12:05 AM	53.4	66.8	48.8
12:05 AM - 12:10 AM	50.2	56.0	47.9
12:10 AM - 12:15 AM	50.5	60.2	47.0
12:15 AM - 12:20 AM	51.5	60.3	49.0
12:20 AM - 12:25 AM	50.2	58.1	47.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Kh. A. Pissakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963981-1

Sample No. 2432544-6
Parameter Noise
Location บ้านนาหวาย (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	51.8	58.6	49.5
12:30 AM - 12:35 AM	51.0	66.8	46.6
12:35 AM - 12:40 AM	49.8	56.3	46.5
12:40 AM - 12:45 AM	51.0	63.3	47.4
12:45 AM - 12:50 AM	50.6	63.8	47.8
12:50 AM - 12:55 AM	50.2	57.5	47.0
12:55 AM - 01:00 AM	49.0	54.7	46.5
01:00 AM - 01:05 AM	49.3	55.6	46.8
01:05 AM - 01:10 AM	50.4	65.7	45.8
01:10 AM - 01:15 AM	51.0	68.4	46.1
01:15 AM - 01:20 AM	48.2	58.7	45.2
01:20 AM - 01:25 AM	49.9	58.6	46.8
01:25 AM - 01:30 AM	49.7	59.6	46.1
01:30 AM - 01:35 AM	49.1	61.1	45.6
01:35 AM - 01:40 AM	49.0	59.2	46.1
01:40 AM - 01:45 AM	51.3	63.8	47.6
01:45 AM - 01:50 AM	51.1	61.1	47.8
01:50 AM - 01:55 AM	52.5	63.0	48.7
01:55 AM - 02:00 AM	49.9	57.7	47.0
02:00 AM - 02:05 AM	49.7	58.7	47.0
02:05 AM - 02:10 AM	49.9	54.9	47.6
02:10 AM - 02:15 AM	50.0	57.4	47.2
02:15 AM - 02:20 AM	51.4	62.2	48.6
02:20 AM - 02:25 AM	52.8	69.9	48.4
02:25 AM - 02:30 AM	50.2	63.7	46.7
02:30 AM - 02:35 AM	50.6	59.8	47.7
02:35 AM - 02:40 AM	49.8	58.3	47.0
02:40 AM - 02:45 AM	50.5	57.9	48.0
02:45 AM - 02:50 AM	53.0	69.6	47.6
02:50 AM - 02:55 AM	49.3	55.0	46.3
02:55 AM - 03:00 AM	51.7	68.5	46.6
03:00 AM - 03:05 AM	49.6	61.3	46.5
03:05 AM - 03:10 AM	49.9	54.6	47.8
03:10 AM - 03:15 AM	50.8	60.0	48.1
03:15 AM - 03:20 AM	49.8	56.7	47.2
03:20 AM - 03:25 AM	50.2	58.2	47.6
03:25 AM - 03:30 AM	50.8	64.8	47.4
03:30 AM - 03:35 AM	50.7	54.3	48.4
03:35 AM - 03:40 AM	49.5	54.6	46.6
03:40 AM - 03:45 AM	49.2	54.7	45.6

Page 2 of 2

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. PROTECT. PROMOTE. PROSPER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963981-1

Sample No. 2432544-6
Parameter Noise
Location บ้านนาหวาย (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.4	53.8	46.2
03:50 AM - 03:55 AM	49.1	55.8	45.5
03:55 AM - 04:00 AM	52.6	66.6	47.4
04:00 AM - 04:05 AM	47.7	57.7	44.5
04:05 AM - 04:10 AM	46.5	51.8	44.3
04:10 AM - 04:15 AM	46.5	53.6	44.5
04:15 AM - 04:20 AM	46.9	55.8	44.2
04:20 AM - 04:25 AM	48.6	67.5	44.7
04:25 AM - 04:30 AM	49.2	66.0	44.3
04:30 AM - 04:35 AM	47.7	62.6	44.7
04:35 AM - 04:40 AM	46.6	54.7	44.2
04:40 AM - 04:45 AM	46.2	55.9	43.5
04:45 AM - 04:50 AM	46.0	52.6	43.5
04:50 AM - 04:55 AM	45.4	52.4	43.1
04:55 AM - 05:00 AM	44.6	51.3	42.6
05:00 AM - 05:05 AM	46.3	56.0	43.6
05:05 AM - 05:10 AM	47.6	64.3	43.5
05:10 AM - 05:15 AM	45.9	55.1	42.9
05:15 AM - 05:20 AM	46.5	53.2	43.8
05:20 AM - 05:25 AM	46.6	63.9	44.0
05:25 AM - 05:30 AM	46.3	56.2	43.6
05:30 AM - 05:35 AM	46.5	55.0	42.8
05:35 AM - 05:40 AM	45.8	58.9	42.0
05:40 AM - 05:45 AM	48.7	61.7	42.8
05:45 AM - 05:50 AM	44.9	54.3	42.2
05:50 AM - 05:55 AM	44.7	50.2	42.4
05:55 AM - 06:00 AM	45.8	56.3	42.1
06:00 AM - 06:05 AM	47.8	66.9	42.9
06:05 AM - 06:10 AM	51.8	73.5	46.2
06:10 AM - 06:15 AM	53.6	75.0	48.9
06:15 AM - 06:20 AM	53.8	72.9	48.4
06:20 AM - 06:25 AM	53.1	74.6	47.3

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. PROTECT. PROMOTE. PROSPER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963982-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432544-7
Parameter Noise
Location บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	54.1	79.9	49.0
12:00 PM - 01:00 PM	51.6	78.1	46.6
01:00 PM - 02:00 PM	53.2	85.3	47.4
02:00 PM - 03:00 PM	53.2	77.9	47.8
03:00 PM - 04:00 PM	50.9	68.2	45.9
04:00 PM - 05:00 PM	51.4	69.9	46.8
05:00 PM - 06:00 PM	55.3	75.1	49.3
06:00 PM - 07:00 PM	53.7	71.5	49.4
07:00 PM - 08:00 PM	53.9	70.3	51.4
08:00 PM - 09:00 PM	53.1	72.2	49.9
09:00 PM - 10:00 PM	51.7	72.6	47.6
10:00 PM - 10:05 PM	50.8	61.9	48.4
10:05 PM - 10:10 PM	53.7	67.9	48.4
10:10 PM - 10:15 PM	52.0	63.7	49.0
10:15 PM - 10:20 PM	52.2	61.5	48.9
10:20 PM - 10:25 PM	50.7	59.4	48.0
10:25 PM - 10:30 PM	49.3	58.1	47.1
10:30 PM - 10:35 PM	51.4	63.4	47.7
10:35 PM - 10:40 PM	50.0	59.9	47.8
10:40 PM - 10:45 PM	49.8	62.2	46.9
10:45 PM - 10:50 PM	49.4	57.6	46.2
10:50 PM - 10:55 PM	49.5	57.6	47.2
10:55 PM - 11:00 PM	49.8	56.2	47.5
11:00 PM - 11:05 PM	50.5	58.6	48.2
11:05 PM - 11:10 PM	50.1	56.5	48.4
11:10 PM - 11:15 PM	50.6	57.5	49.0
11:15 PM - 11:20 PM	50.5	58.9	48.5
11:20 PM - 11:25 PM	49.5	60.6	46.2
11:25 PM - 11:30 PM	51.8	64.6	47.9
11:30 PM - 11:35 PM	48.7	54.7	46.1
11:35 PM - 11:40 PM	51.3	64.5	46.3
11:40 PM - 11:45 PM	52.8	68.0	46.5
11:45 PM - 11:50 PM	49.8	60.5	46.8
11:50 PM - 11:55 PM	51.9	68.2	45.9
11:55 PM - 12:00 AM	50.0	56.6	47.9
12:00 AM - 12:05 AM	48.6	52.6	46.7
12:05 AM - 12:10 AM	50.1	61.1	47.2
12:10 AM - 12:15 AM	51.7	66.0	47.8
12:15 AM - 12:20 AM	49.9	56.5	47.1
12:20 AM - 12:25 AM	49.3	54.5	46.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963982-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432544-7
Parameter Noise
Location บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	48.2	56.0	45.6
12:30 AM - 12:35 AM	49.7	59.6	46.0
12:35 AM - 12:40 AM	48.2	62.9	44.4
12:40 AM - 12:45 AM	47.8	57.6	44.1
12:45 AM - 12:50 AM	50.1	69.9	45.0
12:50 AM - 12:55 AM	46.9	54.3	44.9
12:55 AM - 01:00 AM	47.3	53.8	45.0
01:00 AM - 01:05 AM	47.2	52.9	45.4
01:05 AM - 01:10 AM	47.7	55.3	45.7
01:10 AM - 01:15 AM	48.4	63.4	45.4
01:15 AM - 01:20 AM	46.4	51.8	44.3
01:20 AM - 01:25 AM	48.0	56.9	45.0
01:25 AM - 01:30 AM	47.4	59.4	44.5
01:30 AM - 01:35 AM	47.1	58.1	45.1
01:35 AM - 01:40 AM	46.7	55.5	44.2
01:40 AM - 01:45 AM	47.3	60.7	44.3
01:45 AM - 01:50 AM	47.6	60.3	43.5
01:50 AM - 01:55 AM	49.8	68.4	45.0
01:55 AM - 02:00 AM	52.4	68.3	48.2
02:00 AM - 02:05 AM	50.4	58.3	47.1
02:05 AM - 02:10 AM	49.8	56.5	46.9
02:10 AM - 02:15 AM	49.4	55.7	46.1
02:15 AM - 02:20 AM	49.4	56.9	46.0
02:20 AM - 02:25 AM	48.7	55.1	44.5
02:25 AM - 02:30 AM	46.7	55.1	43.0
02:30 AM - 02:35 AM	45.0	52.3	42.8
02:35 AM - 02:40 AM	53.5	72.8	43.3
02:40 AM - 02:45 AM	45.5	51.7	43.5
02:45 AM - 02:50 AM	45.9	54.1	43.3
02:50 AM - 02:55 AM	46.1	56.0	42.9
02:55 AM - 03:00 AM	45.5	55.1	42.9
03:00 AM - 03:05 AM	45.4	53.4	43.6
03:05 AM - 03:10 AM	47.1	62.6	42.9
03:10 AM - 03:15 AM	44.9	51.4	42.8
03:15 AM - 03:20 AM	44.0	56.4	41.6
03:20 AM - 03:25 AM	45.0	54.5	42.7
03:25 AM - 03:30 AM	48.1	58.9	45.3
03:30 AM - 03:35 AM	47.8	57.7	44.5
03:35 AM - 03:40 AM	47.3	55.2	44.8
03:40 AM - 03:45 AM	46.8	54.9	44.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand. PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432544
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2963982-1

Sample No. 2432544-7
Parameter Noise
Location บ้านนาหว้า (GPS 47P 0734552, 1408513) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764922

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.4	63.2	43.3
03:50 AM - 03:55 AM	45.2	51.9	41.9
03:55 AM - 04:00 AM	43.6	50.8	40.9
04:00 AM - 04:05 AM	44.8	54.8	41.3
04:05 AM - 04:10 AM	45.3	52.8	41.8
04:10 AM - 04:15 AM	45.3	52.8	42.0
04:15 AM - 04:20 AM	45.1	54.5	41.9
04:20 AM - 04:25 AM	44.2	55.9	40.8
04:25 AM - 04:30 AM	44.9	55.3	41.4
04:30 AM - 04:35 AM	48.7	61.4	41.6
04:35 AM - 04:40 AM	45.0	60.7	41.4
04:40 AM - 04:45 AM	46.0	52.8	42.6
04:45 AM - 04:50 AM	46.5	56.0	42.3
04:50 AM - 04:55 AM	45.4	54.0	41.3
04:55 AM - 05:00 AM	46.3	60.5	40.6
05:00 AM - 05:05 AM	51.6	69.6	41.7
05:05 AM - 05:10 AM	50.4	61.9	42.8
05:10 AM - 05:15 AM	47.1	58.9	42.5
05:15 AM - 05:20 AM	47.2	60.8	42.5
05:20 AM - 05:25 AM	49.2	64.5	43.1
05:25 AM - 05:30 AM	46.6	61.9	41.7
05:30 AM - 05:35 AM	46.1	55.8	41.5
05:35 AM - 05:40 AM	51.8	64.1	42.5
05:40 AM - 05:45 AM	49.7	64.0	41.7
05:45 AM - 05:50 AM	50.8	61.7	44.9
05:50 AM - 05:55 AM	50.4	62.6	45.6
05:55 AM - 06:00 AM	50.2	63.3	45.0
06:00 AM - 07:00 AM	52.1	78.2	47.0
07:00 AM - 08:00 AM	53.7	75.9	49.2
08:00 AM - 09:00 AM	56.3	71.1	48.9
09:00 AM - 10:00 AM	53.2	75.3	48.3
10:00 AM - 11:00 AM	51.3	69.3	46.3

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่บุคลากรประกอบกิจการโรงงาน พ.ศ. 2567

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957042-1

Sample No. 2432591-1
Parameter Noise
Location บริเวณโครงการพัฒนาพื้นที่ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.4	78.7	63.6
01:00 PM - 02:00 PM	64.4	85.1	63.6
02:00 PM - 03:00 PM	64.4	79.1	63.7
03:00 PM - 04:00 PM	64.5	76.7	63.7
04:00 PM - 05:00 PM	64.8	75.5	64.0
05:00 PM - 06:00 PM	64.6	73.4	63.9
06:00 PM - 07:00 PM	64.8	80.1	63.9
07:00 PM - 08:00 PM	64.3	70.7	63.8
08:00 PM - 09:00 PM	64.1	70.9	63.7
09:00 PM - 10:00 PM	64.1	69.9	63.6
10:00 PM - 10:05 PM	64.7	78.7	63.7
10:05 PM - 10:10 PM	64.1	68.1	63.7
10:10 PM - 10:15 PM	64.1	65.9	63.7
10:15 PM - 10:20 PM	64.0	65.8	63.5
10:20 PM - 10:25 PM	64.0	65.5	63.5
10:25 PM - 10:30 PM	64.2	66.4	63.6
10:30 PM - 10:35 PM	64.3	66.1	63.6
10:35 PM - 10:40 PM	64.1	67.4	63.6
10:40 PM - 10:45 PM	64.0	66.1	63.6
10:45 PM - 10:50 PM	64.1	65.9	63.7
10:50 PM - 10:55 PM	64.2	68.0	63.7
10:55 PM - 11:00 PM	64.0	66.1	63.6
11:00 PM - 11:05 PM	64.1	65.7	63.7
11:05 PM - 11:10 PM	64.2	69.1	63.8
11:10 PM - 11:15 PM	64.6	66.8	64.1
11:15 PM - 11:20 PM	64.5	66.5	64.0
11:20 PM - 11:25 PM	64.3	67.3	63.8
11:25 PM - 11:30 PM	64.3	67.0	63.8
11:30 PM - 11:35 PM	64.1	65.9	63.7
11:35 PM - 11:40 PM	64.2	67.2	63.7
11:40 PM - 11:45 PM	64.3	67.2	63.8
11:45 PM - 11:50 PM	64.3	66.3	63.8
11:50 PM - 11:55 PM	64.2	66.8	63.8
11:55 PM - 12:00 AM	64.1	66.4	63.6
12:00 AM - 12:05 AM	64.2	65.7	63.7
12:05 AM - 12:10 AM	64.3	65.9	63.8
12:10 AM - 12:15 AM	64.1	66.0	63.7
12:15 AM - 12:20 AM	64.2	66.8	63.7
12:20 AM - 12:25 AM	64.1	65.6	63.7
12:25 AM - 12:30 AM	64.1	65.8	63.7

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957042-1

Sample No. 2432591-1
Parameter Noise
Location รั้วโรงกลั่นด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	64.2	67.8	63.7
12:35 AM - 12:40 AM	64.1	65.9	63.7
12:40 AM - 12:45 AM	64.5	66.2	63.9
12:45 AM - 12:50 AM	64.3	66.2	63.7
12:50 AM - 12:55 AM	64.7	66.0	64.0
12:55 AM - 01:00 AM	64.6	66.4	63.9
01:00 AM - 01:05 AM	64.6	66.8	63.8
01:05 AM - 01:10 AM	64.3	66.2	63.8
01:10 AM - 01:15 AM	64.3	67.2	63.8
01:15 AM - 01:20 AM	64.2	65.6	63.8
01:20 AM - 01:25 AM	64.1	65.4	63.7
01:25 AM - 01:30 AM	64.1	65.6	63.7
01:30 AM - 01:35 AM	64.1	65.6	63.7
01:35 AM - 01:40 AM	64.2	65.5	63.8
01:40 AM - 01:45 AM	64.1	65.8	63.8
01:45 AM - 01:50 AM	64.2	65.7	63.7
01:50 AM - 01:55 AM	64.1	67.4	63.7
01:55 AM - 02:00 AM	64.3	65.7	63.9
02:00 AM - 02:05 AM	64.4	66.2	64.1
02:05 AM - 02:10 AM	64.2	65.7	63.8
02:10 AM - 02:15 AM	64.3	65.6	63.9
02:15 AM - 02:20 AM	64.5	66.4	64.0
02:20 AM - 02:25 AM	64.2	65.8	63.8
02:25 AM - 02:30 AM	64.0	66.1	63.7
02:30 AM - 02:35 AM	64.1	65.7	63.7
02:35 AM - 02:40 AM	64.0	65.1	63.7
02:40 AM - 02:45 AM	64.2	65.4	63.8
02:45 AM - 02:50 AM	64.1	65.7	63.7
02:50 AM - 02:55 AM	64.1	65.5	63.8
02:55 AM - 03:00 AM	64.4	66.9	63.9
03:00 AM - 03:05 AM	64.2	65.5	63.9
03:05 AM - 03:10 AM	64.2	65.9	63.8
03:10 AM - 03:15 AM	64.3	66.1	63.9
03:15 AM - 03:20 AM	64.2	65.7	63.8
03:20 AM - 03:25 AM	64.2	65.6	63.8
03:25 AM - 03:30 AM	64.3	65.9	63.9
03:30 AM - 03:35 AM	64.4	73.0	63.9
03:35 AM - 03:40 AM	64.3	66.2	63.8
03:40 AM - 03:45 AM	64.3	65.8	63.9
03:45 AM - 03:50 AM	64.3	66.1	63.9

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Huakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957042-1

Page 3 of 3

Sample No. 2432591-1
Parameter Noise
Location รั้วโรงกลั่นด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.4	71.0	63.9
03:55 AM - 04:00 AM	64.2	65.6	63.8
04:00 AM - 04:05 AM	64.2	65.5	63.9
04:05 AM - 04:10 AM	64.3	65.7	63.8
04:10 AM - 04:15 AM	64.4	66.3	64.0
04:15 AM - 04:20 AM	64.5	71.2	64.0
04:20 AM - 04:25 AM	64.3	67.3	63.8
04:25 AM - 04:30 AM	64.4	66.3	64.0
04:30 AM - 04:35 AM	64.2	66.0	63.8
04:35 AM - 04:40 AM	64.4	66.5	64.0
04:40 AM - 04:45 AM	64.4	66.0	64.0
04:45 AM - 04:50 AM	64.3	66.2	63.9
04:50 AM - 04:55 AM	64.3	65.7	63.9
04:55 AM - 05:00 AM	64.4	69.0	63.9
05:00 AM - 05:05 AM	64.3	66.5	63.8
05:05 AM - 05:10 AM	64.4	67.9	63.9
05:10 AM - 05:15 AM	64.3	66.2	63.9
05:15 AM - 05:20 AM	64.4	66.3	63.9
05:20 AM - 05:25 AM	64.4	69.9	63.9
05:25 AM - 05:30 AM	64.4	67.2	63.9
05:30 AM - 05:35 AM	64.3	68.6	63.8
05:35 AM - 05:40 AM	64.9	76.8	63.9
05:40 AM - 05:45 AM	64.5	68.0	64.0
05:45 AM - 05:50 AM	64.9	74.9	64.0
05:50 AM - 05:55 AM	64.6	71.4	63.9
05:55 AM - 06:00 AM	65.1	73.1	64.0
06:00 AM - 07:00 AM	65.3	81.9	63.9
07:00 AM - 08:00 AM	64.6	78.2	63.6
08:00 AM - 09:00 AM	64.5	80.1	63.5
09:00 AM - 10:00 AM	64.8	80.0	63.5
10:00 AM - 11:00 AM	64.3	78.9	63.5
11:00 AM - 12:00 PM	64.3	76.9	63.5

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการขนาน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analysed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Huakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957043-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. : 2432591-2
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.5	79.3	63.5
01:00 PM - 02:00 PM	64.2	75.0	63.5
02:00 PM - 03:00 PM	64.3	76.9	63.6
03:00 PM - 04:00 PM	64.5	86.5	63.5
04:00 PM - 05:00 PM	64.6	78.0	63.8
05:00 PM - 06:00 PM	64.7	73.0	63.9
06:00 PM - 07:00 PM	64.9	74.6	64.0
07:00 PM - 08:00 PM	64.4	74.5	63.9
08:00 PM - 09:00 PM	64.3	71.1	63.8
09:00 PM - 10:00 PM	64.5	70.6	64.0
10:00 PM - 10:05 PM	65.3	79.9	63.8
10:05 PM - 10:10 PM	64.1	65.5	63.7
10:10 PM - 10:15 PM	64.3	66.7	63.9
10:15 PM - 10:20 PM	64.3	66.2	63.8
10:20 PM - 10:25 PM	64.2	65.9	63.8
10:25 PM - 10:30 PM	64.1	65.8	63.6
10:30 PM - 10:35 PM	64.3	66.0	63.8
10:35 PM - 10:40 PM	64.2	66.3	63.7
10:40 PM - 10:45 PM	64.0	65.6	63.5
10:45 PM - 10:50 PM	64.0	65.4	63.6
10:50 PM - 10:55 PM	64.0	66.5	63.5
10:55 PM - 11:00 PM	64.1	67.2	63.6
11:00 PM - 11:05 PM	64.1	65.6	63.7
11:05 PM - 11:10 PM	64.2	65.9	63.8
11:10 PM - 11:15 PM	64.3	66.3	63.8
11:15 PM - 11:20 PM	64.0	66.4	63.6
11:20 PM - 11:25 PM	64.2	65.9	63.7
11:25 PM - 11:30 PM	64.2	66.7	63.7
11:30 PM - 11:35 PM	64.2	65.9	63.7
11:35 PM - 11:40 PM	64.3	66.5	63.8
11:40 PM - 11:45 PM	64.3	66.1	63.8
11:45 PM - 11:50 PM	64.2	65.9	63.7
11:50 PM - 11:55 PM	64.2	66.1	63.8
11:55 PM - 12:00 AM	64.3	66.2	63.8
12:00 AM - 12:05 AM	64.3	66.3	63.9
12:05 AM - 12:10 AM	64.4	66.5	64.0
12:10 AM - 12:15 AM	64.2	66.8	63.8
12:15 AM - 12:20 AM	64.2	65.8	63.8
12:20 AM - 12:25 AM	64.2	66.6	63.7
12:25 AM - 12:30 AM	64.2	65.6	63.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957043-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. : 2432591-2
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	64.1	66.1	63.7
12:35 AM - 12:40 AM	64.2	66.4	63.7
12:40 AM - 12:45 AM	64.2	66.8	63.6
12:45 AM - 12:50 AM	64.2	68.2	63.8
12:50 AM - 12:55 AM	64.3	67.2	63.8
12:55 AM - 01:00 AM	64.2	66.4	63.7
01:00 AM - 01:05 AM	64.2	66.6	63.8
01:05 AM - 01:10 AM	64.3	66.0	63.8
01:10 AM - 01:15 AM	64.3	66.2	63.8
01:15 AM - 01:20 AM	64.3	66.2	63.8
01:20 AM - 01:25 AM	64.2	66.0	63.7
01:25 AM - 01:30 AM	64.3	66.4	63.8
01:30 AM - 01:35 AM	64.4	66.8	63.9
01:35 AM - 01:40 AM	64.4	68.5	63.9
01:40 AM - 01:45 AM	64.2	65.9	63.7
01:45 AM - 01:50 AM	64.2	66.2	63.7
01:50 AM - 01:55 AM	64.1	65.6	63.7
01:55 AM - 02:00 AM	64.3	66.8	63.8
02:00 AM - 02:05 AM	64.2	66.6	63.7
02:05 AM - 02:10 AM	64.2	66.1	63.8
02:10 AM - 02:15 AM	64.3	69.0	63.9
02:15 AM - 02:20 AM	64.3	66.0	64.0
02:20 AM - 02:25 AM	64.3	66.6	63.9
02:25 AM - 02:30 AM	64.4	66.8	63.9
02:30 AM - 02:35 AM	64.2	66.2	63.8
02:35 AM - 02:40 AM	64.4	68.5	63.9
02:40 AM - 02:45 AM	64.4	66.2	64.0
02:45 AM - 02:50 AM	64.3	66.0	63.8
02:50 AM - 02:55 AM	64.2	65.4	63.8
02:55 AM - 03:00 AM	64.2	66.1	63.8
03:00 AM - 03:05 AM	64.1	66.4	63.7
03:05 AM - 03:10 AM	64.3	66.3	63.9
03:10 AM - 03:15 AM	64.3	66.1	63.9
03:15 AM - 03:20 AM	64.5	67.6	64.0
03:20 AM - 03:25 AM	64.3	66.2	63.8
03:25 AM - 03:30 AM	64.3	65.9	63.9
03:30 AM - 03:35 AM	64.2	66.3	63.8
03:35 AM - 03:40 AM	64.2	66.0	63.8
03:40 AM - 03:45 AM	64.2	65.7	63.8
03:45 AM - 03:50 AM	64.3	67.8	63.8

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957043-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-2
Parameter Noise
Location รั้วโครงการค่ายหินเหล็ก (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.5	68.2	63.9
03:55 AM - 04:00 AM	64.2	65.9	63.8
04:00 AM - 04:05 AM	64.4	66.6	63.9
04:05 AM - 04:10 AM	64.4	69.3	63.9
04:10 AM - 04:15 AM	64.3	66.3	63.9
04:15 AM - 04:20 AM	64.3	66.7	63.9
04:20 AM - 04:25 AM	64.5	67.8	63.9
04:25 AM - 04:30 AM	64.5	66.4	64.0
04:30 AM - 04:35 AM	64.6	69.4	63.9
04:35 AM - 04:40 AM	64.5	66.5	64.0
04:40 AM - 04:45 AM	64.4	65.9	63.9
04:45 AM - 04:50 AM	64.4	65.9	64.0
04:50 AM - 04:55 AM	64.4	66.4	63.9
04:55 AM - 05:00 AM	64.4	67.1	63.8
05:00 AM - 05:05 AM	64.6	70.8	63.9
05:05 AM - 05:10 AM	64.7	71.4	64.1
05:10 AM - 05:15 AM	64.7	66.9	64.1
05:15 AM - 05:20 AM	64.6	68.7	64.0
05:20 AM - 05:25 AM	64.5	68.1	63.9
05:25 AM - 05:30 AM	64.5	67.0	63.9
05:30 AM - 05:35 AM	64.6	66.7	64.1
05:35 AM - 05:40 AM	64.6	67.8	64.0
05:40 AM - 05:45 AM	64.6	68.5	64.1
05:45 AM - 05:50 AM	64.7	70.8	64.1
05:50 AM - 05:55 AM	64.8	72.1	63.9
05:55 AM - 06:00 AM	65.2	71.8	64.2
06:00 AM - 07:00 AM	65.5	78.5	64.1
07:00 AM - 08:00 AM	64.8	76.9	63.8
08:00 AM - 09:00 AM	64.5	75.2	63.6
09:00 AM - 10:00 AM	64.5	75.8	63.6
10:00 AM - 11:00 AM	64.4	76.7	63.6
11:00 AM - 12:00 PM	64.5	79.2	63.6

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAI) AND CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957044-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-3
Parameter Noise
Location รั้วโครงการค่ายหินเหล็ก (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.2	79.5	63.4
01:00 PM - 02:00 PM	65.1	77.9	63.2
02:00 PM - 03:00 PM	64.2	81.8	63.3
03:00 PM - 04:00 PM	64.1	75.3	63.4
04:00 PM - 05:00 PM	64.9	79.9	63.9
05:00 PM - 06:00 PM	64.6	76.0	63.9
06:00 PM - 07:00 PM	64.6	74.0	63.7
07:00 PM - 08:00 PM	64.3	78.5	63.5
08:00 PM - 09:00 PM	64.1	77.0	63.5
09:00 PM - 10:00 PM	64.1	68.4	63.7
10:00 PM - 10:05 PM	64.0	65.9	63.7
10:05 PM - 10:10 PM	64.1	65.6	63.7
10:10 PM - 10:15 PM	64.2	66.4	63.7
10:15 PM - 10:20 PM	64.1	65.4	63.7
10:20 PM - 10:25 PM	64.1	65.9	63.6
10:25 PM - 10:30 PM	64.0	65.2	63.6
10:30 PM - 10:35 PM	64.1	67.0	63.7
10:35 PM - 10:40 PM	64.0	66.8	63.5
10:40 PM - 10:45 PM	63.9	66.6	63.5
10:45 PM - 10:50 PM	64.0	66.2	63.5
10:50 PM - 10:55 PM	64.0	65.6	63.6
10:55 PM - 11:00 PM	64.0	66.5	63.5
11:00 PM - 11:05 PM	64.0	65.8	63.6
11:05 PM - 11:10 PM	64.0	66.3	63.6
11:10 PM - 11:15 PM	64.1	66.8	63.5
11:15 PM - 11:20 PM	63.9	66.2	63.5
11:20 PM - 11:25 PM	64.0	66.2	63.5
11:25 PM - 11:30 PM	63.9	65.6	63.4
11:30 PM - 11:35 PM	63.9	65.6	63.5
11:35 PM - 11:40 PM	64.0	66.5	63.5
11:40 PM - 11:45 PM	64.0	66.0	63.4
11:45 PM - 11:50 PM	64.0	66.1	63.5
11:50 PM - 11:55 PM	64.1	66.9	63.6
11:55 PM - 12:00 AM	64.0	65.4	63.6
12:00 AM - 12:05 AM	64.1	66.4	63.6
12:05 AM - 12:10 AM	64.0	65.4	63.5
12:10 AM - 12:15 AM	64.0	66.2	63.5
12:15 AM - 12:20 AM	63.9	65.4	63.6
12:20 AM - 12:25 AM	64.1	66.0	63.6
12:25 AM - 12:30 AM	64.2	68.5	63.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand - PHONE +66 0 3304 8555 - FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAI) AND CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957044-1

Sample No. : 2432591-3
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	64.1	67.2	63.6
12:35 AM - 12:40 AM	64.1	65.4	63.8
12:40 AM - 12:45 AM	64.2	69.6	63.8
12:45 AM - 12:50 AM	64.1	65.6	63.6
12:50 AM - 12:55 AM	64.1	65.8	63.7
12:55 AM - 01:00 AM	64.2	66.4	63.7
01:00 AM - 01:05 AM	64.2	70.2	63.8
01:05 AM - 01:10 AM	64.3	65.6	63.8
01:10 AM - 01:15 AM	64.3	70.5	63.8
01:15 AM - 01:20 AM	64.1	66.0	63.7
01:20 AM - 01:25 AM	64.2	66.1	63.8
01:25 AM - 01:30 AM	64.0	65.5	63.6
01:30 AM - 01:35 AM	64.1	65.7	63.7
01:35 AM - 01:40 AM	64.4	66.6	64.0
01:40 AM - 01:45 AM	64.1	65.8	63.6
01:45 AM - 01:50 AM	64.1	65.6	63.6
01:50 AM - 01:55 AM	64.2	67.0	63.8
01:55 AM - 02:00 AM	64.0	65.9	63.6
02:00 AM - 02:05 AM	64.1	66.5	63.6
02:05 AM - 02:10 AM	64.1	66.3	63.7
02:10 AM - 02:15 AM	64.2	67.3	63.7
02:15 AM - 02:20 AM	64.1	66.3	63.7
02:20 AM - 02:25 AM	64.1	66.1	63.7
02:25 AM - 02:30 AM	64.1	65.5	63.7
02:30 AM - 02:35 AM	64.2	69.6	63.7
02:35 AM - 02:40 AM	64.2	72.5	63.7
02:40 AM - 02:45 AM	64.2	65.6	63.8
02:45 AM - 02:50 AM	64.1	65.1	63.7
02:50 AM - 02:55 AM	64.0	65.6	63.7
02:55 AM - 03:00 AM	64.1	66.0	63.6
03:00 AM - 03:05 AM	64.1	65.5	63.6
03:05 AM - 03:10 AM	64.2	65.7	63.8
03:10 AM - 03:15 AM	64.3	65.9	63.8
03:15 AM - 03:20 AM	64.2	65.8	63.8
03:20 AM - 03:25 AM	64.1	65.8	63.7
03:25 AM - 03:30 AM	64.2	65.9	63.7
03:30 AM - 03:35 AM	64.2	66.1	63.7
03:35 AM - 03:40 AM	64.3	65.9	63.8
03:40 AM - 03:45 AM	64.2	66.2	63.8
03:45 AM - 03:50 AM	64.1	66.3	63.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. Report of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenae Khui A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8558

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957044-1

Sample No. : 2432591-3
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.1	66.9	63.7
03:55 AM - 04:00 AM	64.2	66.2	63.7
04:00 AM - 04:05 AM	64.1	65.6	63.7
04:05 AM - 04:10 AM	64.2	66.9	63.8
04:10 AM - 04:15 AM	64.3	66.4	63.8
04:15 AM - 04:20 AM	64.2	65.7	63.8
04:20 AM - 04:25 AM	64.3	66.7	63.8
04:25 AM - 04:30 AM	64.1	65.6	63.8
04:30 AM - 04:35 AM	64.3	65.7	63.9
04:35 AM - 04:40 AM	64.3	66.6	63.8
04:40 AM - 04:45 AM	64.3	66.8	63.9
04:45 AM - 04:50 AM	64.5	67.2	64.1
04:50 AM - 04:55 AM	64.2	65.6	63.8
04:55 AM - 05:00 AM	64.3	69.9	63.8
05:00 AM - 05:05 AM	64.2	65.7	63.8
05:05 AM - 05:10 AM	64.3	67.2	63.8
05:10 AM - 05:15 AM	64.2	66.5	63.7
05:15 AM - 05:20 AM	64.4	70.0	63.8
05:20 AM - 05:25 AM	64.2	65.8	63.7
05:25 AM - 05:30 AM	64.5	69.3	63.9
05:30 AM - 05:35 AM	64.2	65.5	63.9
05:35 AM - 05:40 AM	64.7	67.4	64.0
05:40 AM - 05:45 AM	64.4	67.0	63.9
05:45 AM - 05:50 AM	64.5	70.7	63.9
05:50 AM - 05:55 AM	64.2	66.7	63.8
05:55 AM - 06:00 AM	64.4	67.9	63.9
06:00 AM - 07:00 AM	65.0	78.0	64.1
07:00 AM - 08:00 AM	65.2	77.3	63.9
08:00 AM - 09:00 AM	64.4	76.0	63.6
09:00 AM - 10:00 AM	64.1	75.6	63.4
10:00 AM - 11:00 AM	64.3	83.0	63.3
11:00 AM - 12:00 PM	64.2	74.3	63.4

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดเสียงเมืองการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. Report of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenae Khui A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8558

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957045-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-4
Parameter Noise
Location รับรู้โครงการด้านสิ่งแวดล้อม (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.1	76.8	63.3
01:00 PM - 02:00 PM	64.3	82.1	63.4
02:00 PM - 03:00 PM	63.9	78.6	63.2
03:00 PM - 04:00 PM	64.0	77.7	63.3
04:00 PM - 05:00 PM	64.5	79.8	63.6
05:00 PM - 06:00 PM	64.5	73.1	63.8
06:00 PM - 07:00 PM	64.7	76.0	63.9
07:00 PM - 08:00 PM	64.6	81.4	63.9
08:00 PM - 09:00 PM	64.1	67.3	63.7
09:00 PM - 10:00 PM	64.1	68.9	63.7
10:00 PM - 10:05 PM	64.1	65.1	63.7
10:05 PM - 10:10 PM	64.0	66.0	63.7
10:10 PM - 10:15 PM	64.2	67.9	63.8
10:15 PM - 10:20 PM	64.1	65.8	63.8
10:20 PM - 10:25 PM	64.0	65.0	63.6
10:25 PM - 10:30 PM	64.0	65.1	63.7
10:30 PM - 10:35 PM	64.2	65.7	63.8
10:35 PM - 10:40 PM	64.0	65.1	63.6
10:40 PM - 10:45 PM	64.1	67.8	63.7
10:45 PM - 10:50 PM	64.0	65.7	63.6
10:50 PM - 10:55 PM	64.0	66.6	63.6
10:55 PM - 11:00 PM	64.0	67.6	63.5
11:00 PM - 11:05 PM	63.9	65.1	63.5
11:05 PM - 11:10 PM	63.8	65.2	63.5
11:10 PM - 11:15 PM	63.9	64.9	63.5
11:15 PM - 11:20 PM	64.0	65.0	63.6
11:20 PM - 11:25 PM	63.9	67.0	63.6
11:25 PM - 11:30 PM	64.0	65.9	63.6
11:30 PM - 11:35 PM	64.0	68.4	63.5
11:35 PM - 11:40 PM	64.0	65.6	63.6
11:40 PM - 11:45 PM	63.9	65.2	63.5
11:45 PM - 11:50 PM	63.8	65.1	63.5
11:50 PM - 11:55 PM	64.0	65.7	63.6
11:55 PM - 12:00 AM	63.8	64.9	63.5
12:00 AM - 12:05 AM	64.0	65.7	63.6
12:05 AM - 12:10 AM	63.9	65.1	63.6
12:10 AM - 12:15 AM	63.9	65.0	63.5
12:15 AM - 12:20 AM	64.0	67.3	63.6
12:20 AM - 12:25 AM	63.8	65.4	63.4
12:25 AM - 12:30 AM	64.0	69.5	63.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957045-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-4
Parameter Noise
Location รับรู้โครงการด้านสิ่งแวดล้อม (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	64.0	65.5	63.6
12:35 AM - 12:40 AM	64.0	66.1	63.6
12:40 AM - 12:45 AM	64.2	66.7	63.7
12:45 AM - 12:50 AM	64.0	65.6	63.6
12:50 AM - 12:55 AM	63.8	65.3	63.5
12:55 AM - 01:00 AM	64.0	66.0	63.7
01:00 AM - 01:05 AM	64.0	66.1	63.6
01:05 AM - 01:10 AM	63.9	65.5	63.6
01:10 AM - 01:15 AM	64.0	65.1	63.6
01:15 AM - 01:20 AM	64.0	65.4	63.6
01:20 AM - 01:25 AM	64.1	65.9	63.7
01:25 AM - 01:30 AM	64.1	65.6	63.7
01:30 AM - 01:35 AM	65.1	78.0	63.7
01:35 AM - 01:40 AM	64.2	75.2	63.7
01:40 AM - 01:45 AM	64.0	65.4	63.7
01:45 AM - 01:50 AM	63.9	65.7	63.6
01:50 AM - 01:55 AM	64.1	67.6	63.7
01:55 AM - 02:00 AM	64.0	69.7	63.5
02:00 AM - 02:05 AM	64.0	65.8	63.5
02:05 AM - 02:10 AM	64.0	69.8	63.6
02:10 AM - 02:15 AM	63.9	65.1	63.5
02:15 AM - 02:20 AM	64.0	66.5	63.6
02:20 AM - 02:25 AM	64.1	66.4	63.7
02:25 AM - 02:30 AM	64.1	66.1	63.7
02:30 AM - 02:35 AM	64.0	65.9	63.6
02:35 AM - 02:40 AM	64.1	65.7	63.6
02:40 AM - 02:45 AM	64.1	65.8	63.6
02:45 AM - 02:50 AM	64.2	65.4	63.8
02:50 AM - 02:55 AM	64.1	65.8	63.7
02:55 AM - 03:00 AM	64.1	65.4	63.7
03:00 AM - 03:05 AM	64.1	65.3	63.7
03:05 AM - 03:10 AM	64.2	66.6	63.8
03:10 AM - 03:15 AM	64.1	65.7	63.7
03:15 AM - 03:20 AM	64.0	65.1	63.7
03:20 AM - 03:25 AM	64.1	65.3	63.7
03:25 AM - 03:30 AM	64.1	65.4	63.8
03:30 AM - 03:35 AM	64.2	65.6	63.7
03:35 AM - 03:40 AM	64.2	66.0	63.8
03:40 AM - 03:45 AM	64.2	65.4	63.7
03:45 AM - 03:50 AM	64.2	65.9	63.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957045-1

Sample No. 2432591-4
Parameter Noise
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.2	65.9	63.8
03:55 AM - 04:00 AM	64.1	65.4	63.7
04:00 AM - 04:05 AM	64.0	65.5	63.7
04:05 AM - 04:10 AM	64.1	65.4	63.7
04:10 AM - 04:15 AM	64.0	65.1	63.7
04:15 AM - 04:20 AM	64.0	65.5	63.6
04:20 AM - 04:25 AM	64.0	65.4	63.6
04:25 AM - 04:30 AM	64.2	65.7	63.8
04:30 AM - 04:35 AM	64.1	65.6	63.8
04:35 AM - 04:40 AM	64.1	65.9	63.7
04:40 AM - 04:45 AM	64.1	66.1	63.7
04:45 AM - 04:50 AM	64.1	65.6	63.7
04:50 AM - 04:55 AM	64.1	65.7	63.7
04:55 AM - 05:00 AM	64.7	65.9	64.2
05:00 AM - 05:05 AM	64.8	66.2	64.4
05:05 AM - 05:10 AM	64.9	66.2	64.5
05:10 AM - 05:15 AM	64.9	66.0	64.5
05:15 AM - 05:20 AM	64.9	66.4	64.4
05:20 AM - 05:25 AM	64.9	67.6	64.2
05:25 AM - 05:30 AM	64.8	66.5	64.1
05:30 AM - 05:35 AM	64.8	66.4	64.3
05:35 AM - 05:40 AM	64.4	66.6	63.9
05:40 AM - 05:45 AM	64.3	71.5	63.9
05:45 AM - 05:50 AM	64.5	67.4	64.0
05:50 AM - 05:55 AM	64.4	67.6	63.9
05:55 AM - 06:00 AM	64.2	66.1	63.8
06:00 AM - 07:00 AM	64.6	77.3	63.9
07:00 AM - 08:00 AM	64.9	77.2	63.8
08:00 AM - 09:00 AM	64.5	77.3	63.6
09:00 AM - 10:00 AM	64.1	73.3	63.5
10:00 AM - 11:00 AM	63.9	75.1	63.4
11:00 AM - 12:00 PM	64.1	80.6	63.4

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenah Khui A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. PROUDLY SUPPORTED BY



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957046-1

Sample No. 2432591-5
Parameter Noise
Location บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	63.8	70.9	63.3
01:00 PM - 02:00 PM	63.9	73.5	63.3
02:00 PM - 03:00 PM	64.1	78.6	63.4
03:00 PM - 04:00 PM	64.2	77.1	63.5
04:00 PM - 05:00 PM	64.3	78.4	63.5
05:00 PM - 06:00 PM	64.1	71.3	63.6
06:00 PM - 07:00 PM	64.2	74.7	63.7
07:00 PM - 08:00 PM	64.5	77.6	63.7
08:00 PM - 09:00 PM	64.2	73.1	63.8
09:00 PM - 10:00 PM	64.2	73.0	63.8
10:00 PM - 10:05 PM	64.2	66.7	63.8
10:05 PM - 10:10 PM	64.1	65.4	63.7
10:10 PM - 10:15 PM	64.2	66.6	63.8
10:15 PM - 10:20 PM	64.2	66.3	63.8
10:20 PM - 10:25 PM	64.2	70.6	63.8
10:25 PM - 10:30 PM	64.2	67.7	63.8
10:30 PM - 10:35 PM	64.2	66.4	63.8
10:35 PM - 10:40 PM	64.2	65.6	63.8
10:40 PM - 10:45 PM	64.1	65.7	63.7
10:45 PM - 10:50 PM	64.2	69.9	63.8
10:50 PM - 10:55 PM	64.1	65.2	63.7
10:55 PM - 11:00 PM	64.2	66.1	63.8
11:00 PM - 11:05 PM	64.2	66.6	63.8
11:05 PM - 11:10 PM	64.1	66.8	63.6
11:10 PM - 11:15 PM	64.1	65.5	63.8
11:15 PM - 11:20 PM	64.2	66.4	63.8
11:20 PM - 11:25 PM	64.3	66.5	63.8
11:25 PM - 11:30 PM	64.1	65.2	63.7
11:30 PM - 11:35 PM	64.0	65.4	63.7
11:35 PM - 11:40 PM	64.0	65.9	63.6
11:40 PM - 11:45 PM	64.0	66.8	63.6
11:45 PM - 11:50 PM	63.9	66.2	63.5
11:50 PM - 11:55 PM	64.1	66.7	63.6
11:55 PM - 12:00 AM	64.0	65.7	63.6
12:00 AM - 12:05 AM	64.0	65.4	63.5
12:05 AM - 12:10 AM	64.0	65.4	63.6
12:10 AM - 12:15 AM	64.1	66.2	63.6
12:15 AM - 12:20 AM	64.0	66.5	63.6
12:20 AM - 12:25 AM	63.9	65.3	63.5
12:25 AM - 12:30 AM	64.0	65.4	63.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenah Khui A. Phakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. PROUDLY SUPPORTED BY



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957046-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-5
Parameter Noise
Location รั้วโครงการคำวนพัฒนา (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	63.9	65.1	63.6
12:35 AM - 12:40 AM	64.0	66.5	63.6
12:40 AM - 12:45 AM	63.8	65.8	63.5
12:45 AM - 12:50 AM	63.9	65.7	63.5
12:50 AM - 12:55 AM	64.0	66.2	63.6
12:55 AM - 01:00 AM	64.0	65.5	63.6
01:00 AM - 01:05 AM	64.2	66.1	63.7
01:05 AM - 01:10 AM	64.2	66.0	63.8
01:10 AM - 01:15 AM	64.3	66.6	63.9
01:15 AM - 01:20 AM	64.2	65.4	63.8
01:20 AM - 01:25 AM	64.1	66.2	63.7
01:25 AM - 01:30 AM	64.2	65.7	63.8
01:30 AM - 01:35 AM	64.2	65.6	63.8
01:35 AM - 01:40 AM	64.1	65.8	63.7
01:40 AM - 01:45 AM	64.1	65.6	63.7
01:45 AM - 01:50 AM	64.1	65.6	63.7
01:50 AM - 01:55 AM	64.0	65.2	63.7
01:55 AM - 02:00 AM	64.2	65.5	63.8
02:00 AM - 02:05 AM	64.2	66.4	63.8
02:05 AM - 02:10 AM	64.2	65.4	63.8
02:10 AM - 02:15 AM	64.2	66.1	63.8
02:15 AM - 02:20 AM	64.2	67.4	63.8
02:20 AM - 02:25 AM	64.2	65.4	63.8
02:25 AM - 02:30 AM	64.3	66.2	63.9
02:30 AM - 02:35 AM	64.1	65.8	63.8
02:35 AM - 02:40 AM	64.1	65.9	63.8
02:40 AM - 02:45 AM	64.1	66.4	63.7
02:45 AM - 02:50 AM	64.0	65.2	63.7
02:50 AM - 02:55 AM	64.2	66.9	63.8
02:55 AM - 03:00 AM	64.1	65.2	63.8
03:00 AM - 03:05 AM	64.1	65.5	63.8
03:05 AM - 03:10 AM	64.3	65.4	64.0
03:10 AM - 03:15 AM	64.4	66.6	64.0
03:15 AM - 03:20 AM	64.2	65.2	63.9
03:20 AM - 03:25 AM	64.2	65.4	63.8
03:25 AM - 03:30 AM	64.2	65.7	63.9
03:30 AM - 03:35 AM	64.2	65.3	63.8
03:35 AM - 03:40 AM	64.1	65.2	63.7
03:40 AM - 03:45 AM	64.1	65.6	63.7
03:45 AM - 03:50 AM	64.2	65.6	63.8

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or any data may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957046-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-5
Parameter Noise
Location รั้วโครงการคำวนพัฒนา (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.3	65.6	63.9
03:55 AM - 04:00 AM	64.2	65.3	63.8
04:00 AM - 04:05 AM	64.2	66.4	63.9
04:05 AM - 04:10 AM	64.2	65.8	63.9
04:10 AM - 04:15 AM	64.3	65.4	63.9
04:15 AM - 04:20 AM	64.3	66.0	63.9
04:20 AM - 04:25 AM	64.3	66.1	63.9
04:25 AM - 04:30 AM	64.2	65.3	63.9
04:30 AM - 04:35 AM	64.7	65.9	64.2
04:35 AM - 04:40 AM	64.8	66.1	64.1
04:40 AM - 04:45 AM	65.0	68.2	64.3
04:45 AM - 04:50 AM	65.0	66.2	64.7
04:50 AM - 04:55 AM	64.9	66.1	64.4
04:55 AM - 05:00 AM	64.8	66.3	64.2
05:00 AM - 05:05 AM	64.8	66.1	64.2
05:05 AM - 05:10 AM	64.4	65.6	64.0
05:10 AM - 05:15 AM	64.4	65.7	64.0
05:15 AM - 05:20 AM	64.3	65.5	63.9
05:20 AM - 05:25 AM	64.4	71.9	64.0
05:25 AM - 05:30 AM	64.4	65.9	64.1
05:30 AM - 05:35 AM	64.6	65.9	64.1
05:35 AM - 05:40 AM	64.6	66.6	64.1
05:40 AM - 05:45 AM	64.3	66.2	63.9
05:45 AM - 05:50 AM	64.6	67.2	64.0
05:50 AM - 05:55 AM	64.3	66.3	63.9
05:55 AM - 06:00 AM	64.7	72.4	64.1
06:00 AM - 07:00 AM	64.6	77.5	63.9
07:00 AM - 08:00 AM	64.7	75.8	63.7
08:00 AM - 09:00 AM	64.4	85.2	63.6
09:00 AM - 10:00 AM	64.1	74.7	63.5
10:00 AM - 11:00 AM	64.1	73.3	63.5
11:00 AM - 12:00 PM	64.4	77.1	63.8

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or any data may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957047-1

Sample No. : 2432591-6
Parameter : Noise
Location : โรงงานอุตสาหกรรม (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.0	78.8	63.4
01:00 PM - 02:00 PM	63.9	72.1	63.3
02:00 PM - 03:00 PM	63.6	73.7	63.1
03:00 PM - 04:00 PM	63.7	72.8	63.1
04:00 PM - 05:00 PM	63.7	78.5	63.1
05:00 PM - 06:00 PM	64.1	80.5	63.3
06:00 PM - 07:00 PM	64.1	73.6	63.4
07:00 PM - 08:00 PM	64.3	73.0	63.7
08:00 PM - 09:00 PM	64.3	77.2	63.6
09:00 PM - 10:00 PM	64.0	73.4	63.5
10:00 PM - 10:05 PM	64.0	67.3	63.7
10:05 PM - 10:10 PM	64.0	69.9	63.6
10:10 PM - 10:15 PM	64.1	66.2	63.6
10:15 PM - 10:20 PM	63.8	65.4	63.5
10:20 PM - 10:25 PM	63.9	65.1	63.6
10:25 PM - 10:30 PM	64.0	67.9	63.5
10:30 PM - 10:35 PM	64.0	65.5	63.6
10:35 PM - 10:40 PM	63.9	65.1	63.6
10:40 PM - 10:45 PM	64.1	65.7	63.7
10:45 PM - 10:50 PM	64.1	65.3	63.8
10:50 PM - 10:55 PM	64.0	65.2	63.7
10:55 PM - 11:00 PM	63.9	64.9	63.6
11:00 PM - 11:05 PM	63.9	65.0	63.6
11:05 PM - 11:10 PM	64.0	66.0	63.7
11:10 PM - 11:15 PM	64.1	70.2	63.6
11:15 PM - 11:20 PM	64.0	70.9	63.6
11:20 PM - 11:25 PM	64.1	65.3	63.7
11:25 PM - 11:30 PM	64.2	66.0	63.8
11:30 PM - 11:35 PM	64.0	65.2	63.7
11:35 PM - 11:40 PM	64.0	65.1	63.7
11:40 PM - 11:45 PM	64.1	68.0	63.7
11:45 PM - 11:50 PM	63.9	66.0	63.5
11:50 PM - 11:55 PM	63.9	65.2	63.5
11:55 PM - 12:00 AM	64.0	67.7	63.6
12:00 AM - 12:05 AM	63.8	64.9	63.5
12:05 AM - 12:10 AM	63.8	64.9	63.4
12:10 AM - 12:15 AM	64.2	67.8	63.7
12:15 AM - 12:20 AM	63.9	65.5	63.6
12:20 AM - 12:25 AM	63.9	65.3	63.6
12:25 AM - 12:30 AM	64.0	65.6	63.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957047-1

Sample No. : 2432591-6
Parameter : Noise
Location : โรงงานอุตสาหกรรม (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 07 - 08, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	64.0	65.5	63.7
12:35 AM - 12:40 AM	63.9	65.1	63.5
12:40 AM - 12:45 AM	64.0	65.3	63.6
12:45 AM - 12:50 AM	64.0	66.0	63.6
12:50 AM - 12:55 AM	64.0	67.1	63.6
12:55 AM - 01:00 AM	63.9	68.1	63.5
01:00 AM - 01:05 AM	63.9	65.2	63.5
01:05 AM - 01:10 AM	63.9	65.2	63.5
01:10 AM - 01:15 AM	64.0	65.4	63.6
01:15 AM - 01:20 AM	64.1	66.0	63.6
01:20 AM - 01:25 AM	63.8	65.0	63.5
01:25 AM - 01:30 AM	64.1	67.0	63.6
01:30 AM - 01:35 AM	63.9	65.3	63.5
01:35 AM - 01:40 AM	64.0	65.3	63.5
01:40 AM - 01:45 AM	64.0	65.5	63.7
01:45 AM - 01:50 AM	63.9	65.2	63.5
01:50 AM - 01:55 AM	63.8	65.0	63.4
01:55 AM - 02:00 AM	63.9	65.2	63.6
02:00 AM - 02:05 AM	63.9	65.3	63.6
02:05 AM - 02:10 AM	63.9	65.4	63.6
02:10 AM - 02:15 AM	63.9	65.7	63.5
02:15 AM - 02:20 AM	64.0	65.7	63.6
02:20 AM - 02:25 AM	64.5	72.4	63.8
02:25 AM - 02:30 AM	64.2	66.0	63.8
02:30 AM - 02:35 AM	64.1	65.3	63.7
02:35 AM - 02:40 AM	64.3	65.7	63.9
02:40 AM - 02:45 AM	64.2	65.9	63.8
02:45 AM - 02:50 AM	64.1	65.6	63.6
02:50 AM - 02:55 AM	64.0	65.5	63.7
02:55 AM - 03:00 AM	64.0	65.7	63.6
03:00 AM - 03:05 AM	63.9	65.1	63.5
03:05 AM - 03:10 AM	63.9	65.3	63.6
03:10 AM - 03:15 AM	64.0	65.6	63.6
03:15 AM - 03:20 AM	64.0	65.3	63.6
03:20 AM - 03:25 AM	63.9	65.1	63.6
03:25 AM - 03:30 AM	64.0	66.2	63.7
03:30 AM - 03:35 AM	64.0	65.9	63.6
03:35 AM - 03:40 AM	64.4	65.8	63.7
03:40 AM - 03:45 AM	64.1	65.7	63.7
03:45 AM - 03:50 AM	64.1	65.4	63.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957047-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-6
Parameter Noise
Location รั้วโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	64.1	65.6	63.6
03:55 AM - 04:00 AM	64.0	65.6	63.6
04:00 AM - 04:05 AM	64.1	65.8	63.7
04:05 AM - 04:10 AM	63.9	65.2	63.5
04:10 AM - 04:15 AM	63.8	66.1	63.5
04:15 AM - 04:20 AM	63.8	65.1	63.5
04:20 AM - 04:25 AM	63.8	65.3	63.4
04:25 AM - 04:30 AM	63.9	65.2	63.5
04:30 AM - 04:35 AM	64.0	65.2	63.6
04:35 AM - 04:40 AM	64.0	65.5	63.6
04:40 AM - 04:45 AM	64.1	65.5	63.6
04:45 AM - 04:50 AM	63.9	67.0	63.5
04:50 AM - 04:55 AM	64.1	65.6	63.7
04:55 AM - 05:00 AM	64.2	65.6	63.8
05:00 AM - 05:05 AM	64.1	65.3	63.7
05:05 AM - 05:10 AM	64.1	65.4	63.7
05:10 AM - 05:15 AM	64.1	67.1	63.8
05:15 AM - 05:20 AM	64.0	69.3	63.6
05:20 AM - 05:25 AM	64.0	65.1	63.7
05:25 AM - 05:30 AM	64.0	65.1	63.7
05:30 AM - 05:35 AM	64.0	66.7	63.7
05:35 AM - 05:40 AM	64.1	67.7	63.7
05:40 AM - 05:45 AM	64.1	65.7	63.7
05:45 AM - 05:50 AM	64.2	69.4	63.8
05:50 AM - 05:55 AM	64.2	70.2	63.7
05:55 AM - 06:00 AM	64.2	73.2	63.9
06:00 AM - 07:00 AM	64.2	71.4	63.7
07:00 AM - 08:00 AM	64.3	75.8	63.6
08:00 AM - 09:00 AM	65.0	83.4	63.6
09:00 AM - 10:00 AM	65.1	84.3	63.4
10:00 AM - 11:00 AM	64.5	83.5	63.2
11:00 AM - 12:00 PM	64.2	77.8	63.1

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957048-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-7
Parameter Noise
Location รั้วโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	64.2	78.7	63.0
01:00 PM - 02:00 PM	64.5	86.1	62.9
02:00 PM - 03:00 PM	64.1	77.5	63.0
03:00 PM - 04:00 PM	63.8	74.8	63.1
04:00 PM - 05:00 PM	64.2	79.2	63.4
05:00 PM - 06:00 PM	64.4	80.3	63.5
06:00 PM - 07:00 PM	64.1	75.5	63.5
07:00 PM - 08:00 PM	64.3	78.6	63.6
08:00 PM - 09:00 PM	64.0	67.8	63.6
09:00 PM - 10:00 PM	64.0	68.5	63.6
10:00 PM - 10:05 PM	64.0	65.7	63.5
10:05 PM - 10:10 PM	64.0	65.2	63.6
10:10 PM - 10:15 PM	63.9	65.1	63.5
10:15 PM - 10:20 PM	64.0	68.6	63.5
10:20 PM - 10:25 PM	64.3	65.9	63.7
10:25 PM - 10:30 PM	63.9	65.5	63.6
10:30 PM - 10:35 PM	63.9	65.4	63.6
10:35 PM - 10:40 PM	64.2	69.8	63.6
10:40 PM - 10:45 PM	64.0	70.5	63.5
10:45 PM - 10:50 PM	64.0	67.3	63.5
10:50 PM - 10:55 PM	63.8	64.9	63.4
10:55 PM - 11:00 PM	63.8	65.1	63.5
11:00 PM - 11:05 PM	64.0	65.0	63.6
11:05 PM - 11:10 PM	64.0	65.1	63.7
11:10 PM - 11:15 PM	63.9	66.6	63.6
11:15 PM - 11:20 PM	64.1	69.9	63.6
11:20 PM - 11:25 PM	64.0	66.0	63.6
11:25 PM - 11:30 PM	64.0	66.9	63.6
11:30 PM - 11:35 PM	63.8	65.1	63.5
11:35 PM - 11:40 PM	63.8	65.5	63.4
11:40 PM - 11:45 PM	63.8	64.7	63.5
11:45 PM - 11:50 PM	63.7	64.6	63.5
11:50 PM - 11:55 PM	64.3	65.7	63.7
11:55 PM - 12:00 AM	64.3	66.6	63.6
12:00 AM - 12:05 AM	64.2	65.4	63.7
12:05 AM - 12:10 AM	64.3	67.2	63.7
12:10 AM - 12:15 AM	64.2	65.6	63.6
12:15 AM - 12:20 AM	64.2	65.7	63.6
12:20 AM - 12:25 AM	63.8	65.1	63.5
12:25 AM - 12:30 AM	63.9	64.8	63.6

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Muakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957048-1

Sample No. : 2432591-7
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 08 - 09, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	63.9	64.9	63.6
12:35 AM - 12:40 AM	63.9	65.3	63.6
12:40 AM - 12:45 AM	63.9	66.2	63.5
12:45 AM - 12:50 AM	63.9	64.8	63.5
12:50 AM - 12:55 AM	63.9	65.0	63.6
12:55 AM - 01:00 AM	64.0	65.3	63.7
01:00 AM - 01:05 AM	64.1	65.9	63.7
01:05 AM - 01:10 AM	63.9	65.3	63.6
01:10 AM - 01:15 AM	64.1	65.4	63.7
01:15 AM - 01:20 AM	64.0	66.2	63.6
01:20 AM - 01:25 AM	63.9	64.9	63.5
01:25 AM - 01:30 AM	63.9	65.1	63.5
01:30 AM - 01:35 AM	64.0	65.6	63.6
01:35 AM - 01:40 AM	64.0	65.0	63.7
01:40 AM - 01:45 AM	64.0	65.2	63.6
01:45 AM - 01:50 AM	64.1	65.1	63.7
01:50 AM - 01:55 AM	64.1	65.2	63.7
01:55 AM - 02:00 AM	64.1	65.0	63.7
02:00 AM - 02:05 AM	64.1	65.6	63.8
02:05 AM - 02:10 AM	64.0	65.2	63.7
02:10 AM - 02:15 AM	63.9	64.8	63.6
02:15 AM - 02:20 AM	63.9	64.8	63.6
02:20 AM - 02:25 AM	63.7	65.5	63.5
02:25 AM - 02:30 AM	64.1	65.4	63.8
02:30 AM - 02:35 AM	64.5	72.7	63.8
02:35 AM - 02:40 AM	64.1	65.7	63.7
02:40 AM - 02:45 AM	64.2	65.9	63.8
02:45 AM - 02:50 AM	64.1	65.1	63.7
02:50 AM - 02:55 AM	64.1	65.2	63.8
02:55 AM - 03:00 AM	64.1	65.4	63.8
03:00 AM - 03:05 AM	64.0	65.2	63.7
03:05 AM - 03:10 AM	63.9	65.1	63.6
03:10 AM - 03:15 AM	64.1	65.1	63.8
03:15 AM - 03:20 AM	63.9	64.9	63.6
03:20 AM - 03:25 AM	64.0	66.3	63.6
03:25 AM - 03:30 AM	64.1	65.2	63.7
03:30 AM - 03:35 AM	64.1	65.6	63.7
03:35 AM - 03:40 AM	64.0	65.1	63.6
03:40 AM - 03:45 AM	64.0	65.0	63.6
03:45 AM - 03:50 AM	64.1	65.3	63.7

Page 2 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957048-1

Sample No. : 2432591-7
Parameter : Noise
Location : บริเวณโครงการด้านทิศเหนือ (GPS 47P 0735327, 1410487) (Shut down)
Measurement Date : Apr 08 - 09, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920832

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	63.9	65.1	63.6
03:55 AM - 04:00 AM	64.0	65.4	63.6
04:00 AM - 04:05 AM	64.2	66.0	63.8
04:05 AM - 04:10 AM	64.1	66.8	63.7
04:10 AM - 04:15 AM	63.9	67.0	63.5
04:15 AM - 04:20 AM	63.8	64.8	63.5
04:20 AM - 04:25 AM	63.7	65.0	63.4
04:25 AM - 04:30 AM	63.8	64.9	63.5
04:30 AM - 04:35 AM	63.9	65.3	63.5
04:35 AM - 04:40 AM	63.9	66.8	63.5
04:40 AM - 04:45 AM	64.1	66.5	63.7
04:45 AM - 04:50 AM	64.0	65.9	63.6
04:50 AM - 04:55 AM	64.1	67.1	63.7
04:55 AM - 05:00 AM	64.0	65.3	63.7
05:00 AM - 05:05 AM	64.0	67.7	63.6
05:05 AM - 05:10 AM	64.0	65.0	63.6
05:10 AM - 05:15 AM	64.0	65.2	63.6
05:15 AM - 05:20 AM	63.8	64.9	63.5
05:20 AM - 05:25 AM	63.9	65.8	63.6
05:25 AM - 05:30 AM	64.0	65.3	63.7
05:30 AM - 05:35 AM	64.2	68.0	63.7
05:35 AM - 05:40 AM	64.2	66.0	63.8
05:40 AM - 05:45 AM	64.0	67.0	63.6
05:45 AM - 05:50 AM	64.0	66.0	63.7
05:50 AM - 05:55 AM	64.1	66.5	63.7
05:55 AM - 06:00 AM	63.9	67.2	63.6
06:00 AM - 07:00 AM	64.6	79.2	63.7
07:00 AM - 08:00 AM	65.2	80.9	63.8
08:00 AM - 09:00 AM	65.0	88.2	63.5
09:00 AM - 10:00 AM	64.2	79.4	63.4
10:00 AM - 11:00 AM	64.2	82.2	63.5
11:00 AM - 12:00 PM	64.4	77.5	63.5

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957049-1

Sample No. : 2432591-8
Parameter : Noise
Location : รั้วโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.8	80.6	51.1
01:00 PM - 02:00 PM	57.4	83.0	53.3
02:00 PM - 03:00 PM	58.3	88.3	54.2
03:00 PM - 04:00 PM	55.4	79.1	52.2
04:00 PM - 05:00 PM	56.6	79.4	52.1
05:00 PM - 06:00 PM	57.5	91.8	51.8
06:00 PM - 07:00 PM	56.3	83.1	52.5
07:00 PM - 08:00 PM	52.8	78.3	51.4
08:00 PM - 09:00 PM	53.3	83.4	51.1
09:00 PM - 10:00 PM	55.3	72.9	54.7
10:00 PM - 10:05 PM	53.2	56.6	52.8
10:05 PM - 10:10 PM	53.1	55.2	52.8
10:10 PM - 10:15 PM	53.1	54.4	52.7
10:15 PM - 10:20 PM	53.0	55.0	52.7
10:20 PM - 10:25 PM	51.5	58.6	50.6
10:25 PM - 10:30 PM	51.2	53.3	50.7
10:30 PM - 10:35 PM	51.4	53.9	50.9
10:35 PM - 10:40 PM	51.2	52.9	50.7
10:40 PM - 10:45 PM	51.0	52.4	50.6
10:45 PM - 10:50 PM	51.0	57.1	50.5
10:50 PM - 10:55 PM	51.0	52.3	50.6
10:55 PM - 11:00 PM	51.2	55.6	50.5
11:00 PM - 11:05 PM	51.1	53.6	50.5
11:05 PM - 11:10 PM	51.5	58.0	50.7
11:10 PM - 11:15 PM	51.2	53.4	50.6
11:15 PM - 11:20 PM	51.3	54.9	50.6
11:20 PM - 11:25 PM	51.1	52.8	50.6
11:25 PM - 11:30 PM	51.1	53.3	50.6
11:30 PM - 11:35 PM	50.9	56.0	50.5
11:35 PM - 11:40 PM	51.0	53.7	50.5
11:40 PM - 11:45 PM	50.9	52.9	50.5
11:45 PM - 11:50 PM	51.0	55.5	50.6
11:50 PM - 11:55 PM	55.4	69.4	50.8
11:55 PM - 12:00 AM	59.8	63.2	56.7
12:00 AM - 12:05 AM	62.5	64.5	61.9
12:05 AM - 12:10 AM	61.0	63.7	58.6
12:10 AM - 12:15 AM	56.0	57.2	55.5
12:15 AM - 12:20 AM	55.7	57.5	55.3
12:20 AM - 12:25 AM	55.6	56.5	55.4
12:25 AM - 12:30 AM	55.6	56.4	55.3

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced in full.

Approved by

Wiawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957049-1

Sample No. : 2432591-8
Parameter : Noise
Location : รั้วโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	55.9	66.1	55.4
12:35 AM - 12:40 AM	55.6	58.4	55.3
12:40 AM - 12:45 AM	55.6	56.5	55.4
12:45 AM - 12:50 AM	56.7	65.9	56.4
12:50 AM - 12:55 AM	55.0	57.4	52.9
12:55 AM - 01:00 AM	51.2	54.1	50.6
01:00 AM - 01:05 AM	50.9	52.4	50.6
01:05 AM - 01:10 AM	51.0	55.2	50.6
01:10 AM - 01:15 AM	51.0	52.8	50.6
01:15 AM - 01:20 AM	51.0	52.4	50.6
01:20 AM - 01:25 AM	51.2	53.9	50.8
01:25 AM - 01:30 AM	51.3	52.9	50.7
01:30 AM - 01:35 AM	51.0	52.6	50.6
01:35 AM - 01:40 AM	51.2	55.5	50.6
01:40 AM - 01:45 AM	50.9	56.3	50.6
01:45 AM - 01:50 AM	50.9	54.9	50.6
01:50 AM - 01:55 AM	52.5	65.4	50.6
01:55 AM - 02:00 AM	51.0	54.0	50.6
02:00 AM - 02:05 AM	50.9	54.9	50.6
02:05 AM - 02:10 AM	50.9	56.7	50.6
02:10 AM - 02:15 AM	50.9	54.9	50.6
02:15 AM - 02:20 AM	51.3	59.9	50.5
02:20 AM - 02:25 AM	53.2	55.7	52.9
02:25 AM - 02:30 AM	51.8	55.0	50.5
02:30 AM - 02:35 AM	51.0	52.8	50.6
02:35 AM - 02:40 AM	50.8	53.0	50.5
02:40 AM - 02:45 AM	50.9	52.4	50.5
02:45 AM - 02:50 AM	50.9	53.9	50.5
02:50 AM - 02:55 AM	50.9	53.4	50.6
02:55 AM - 03:00 AM	50.8	51.8	50.5
03:00 AM - 03:05 AM	50.9	52.0	50.6
03:05 AM - 03:10 AM	50.8	52.1	50.4
03:10 AM - 03:15 AM	50.9	52.7	50.6
03:15 AM - 03:20 AM	50.8	52.0	50.5
03:20 AM - 03:25 AM	52.3	67.2	50.3
03:25 AM - 03:30 AM	50.7	52.9	50.4
03:30 AM - 03:35 AM	51.1	55.4	50.6
03:35 AM - 03:40 AM	50.8	52.4	50.5
03:40 AM - 03:45 AM	50.8	53.1	50.4
03:45 AM - 03:50 AM	50.9	52.3	50.5

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced in full.

Approved by

Wiawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957049-1

Sample No. : 2432591-8
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date : Apr 02 - 03, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	50.8	58.6	50.5
03:55 AM - 04:00 AM	50.8	51.9	50.5
04:00 AM - 04:05 AM	50.8	52.3	50.5
04:05 AM - 04:10 AM	50.9	52.3	50.5
04:10 AM - 04:15 AM	52.7	67.4	50.5
04:15 AM - 04:20 AM	55.4	68.7	54.6
04:20 AM - 04:25 AM	54.9	60.2	54.6
04:25 AM - 04:30 AM	54.9	55.8	54.6
04:30 AM - 04:35 AM	55.0	56.0	54.8
04:35 AM - 04:40 AM	55.3	56.6	55.0
04:40 AM - 04:45 AM	53.6	56.1	50.8
04:45 AM - 04:50 AM	50.8	52.4	50.4
04:50 AM - 04:55 AM	50.9	52.3	50.5
04:55 AM - 05:00 AM	50.9	53.7	50.5
05:00 AM - 05:05 AM	50.9	52.7	50.5
05:05 AM - 05:10 AM	50.8	52.2	50.4
05:10 AM - 05:15 AM	50.9	52.6	50.5
05:15 AM - 05:20 AM	50.9	52.2	50.5
05:20 AM - 05:25 AM	50.9	52.1	50.5
05:25 AM - 05:30 AM	50.9	53.3	50.5
05:30 AM - 05:35 AM	51.7	65.7	50.5
05:35 AM - 05:40 AM	53.5	75.3	50.6
05:40 AM - 05:45 AM	53.1	62.0	51.0
05:45 AM - 05:50 AM	66.9	70.9	51.4
05:50 AM - 05:55 AM	67.2	69.6	65.8
05:55 AM - 06:00 AM	60.8	67.7	53.4
06:00 AM - 07:00 AM	55.1	73.2	53.3
07:00 AM - 08:00 AM	62.1	96.8	54.0
08:00 AM - 09:00 AM	61.2	90.3	55.8
09:00 AM - 10:00 AM	58.9	90.9	52.7
10:00 AM - 11:00 AM	58.8	80.0	55.6
11:00 AM - 12:00 PM	58.0	80.3	53.9

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957050-1

Sample No. : 2432591-9
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.2	80.7	51.0
01:00 PM - 02:00 PM	56.0	83.2	51.5
02:00 PM - 03:00 PM	57.5	74.9	53.5
03:00 PM - 04:00 PM	56.0	79.1	53.4
04:00 PM - 05:00 PM	54.0	77.3	51.3
05:00 PM - 06:00 PM	53.5	73.7	51.3
06:00 PM - 07:00 PM	62.7	78.9	59.2
07:00 PM - 08:00 PM	55.3	80.2	51.9
08:00 PM - 09:00 PM	52.1	57.8	50.8
09:00 PM - 10:00 PM	52.7	66.4	50.8
10:00 PM - 10:05 PM	52.2	56.7	50.8
10:05 PM - 10:10 PM	52.2	56.7	50.7
10:10 PM - 10:15 PM	52.2	56.8	50.7
10:15 PM - 10:20 PM	51.9	56.1	50.7
10:20 PM - 10:25 PM	52.0	56.5	50.6
10:25 PM - 10:30 PM	52.3	57.7	50.6
10:30 PM - 10:35 PM	52.3	63.6	50.6
10:35 PM - 10:40 PM	52.5	63.7	50.7
10:40 PM - 10:45 PM	52.1	56.7	50.7
10:45 PM - 10:50 PM	52.3	58.1	50.9
10:50 PM - 10:55 PM	52.6	59.5	51.0
10:55 PM - 11:00 PM	52.3	57.5	50.9
11:00 PM - 11:05 PM	51.7	57.1	50.5
11:05 PM - 11:10 PM	51.8	56.8	50.5
11:10 PM - 11:15 PM	52.1	57.6	50.6
11:15 PM - 11:20 PM	52.1	57.5	50.7
11:20 PM - 11:25 PM	52.4	60.1	50.7
11:25 PM - 11:30 PM	51.3	56.6	50.6
11:30 PM - 11:35 PM	51.6	57.0	50.6
11:35 PM - 11:40 PM	51.8	57.1	50.6
11:40 PM - 11:45 PM	51.4	57.3	50.5
11:45 PM - 11:50 PM	51.9	58.2	50.6
11:50 PM - 11:55 PM	51.9	56.4	50.7
11:55 PM - 12:00 AM	51.7	56.2	50.7
12:00 AM - 12:05 AM	51.4	55.6	50.6
12:05 AM - 12:10 AM	51.6	56.6	50.6
12:10 AM - 12:15 AM	52.0	58.9	50.6
12:15 AM - 12:20 AM	51.3	55.6	50.6
12:20 AM - 12:25 AM	51.4	56.1	50.5
12:25 AM - 12:30 AM	51.7	56.5	50.6

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957050-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-9
Parameter Noise
Location รั้วโรงกลั่นปิโตรเลียม (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	52.0	62.2	50.7
12:35 AM - 12:40 AM	53.0	58.7	50.8
12:40 AM - 12:45 AM	57.6	62.4	55.6
12:45 AM - 12:50 AM	57.5	63.0	55.4
12:50 AM - 12:55 AM	52.5	54.8	52.0
12:55 AM - 01:00 AM	51.2	52.9	50.7
01:00 AM - 01:05 AM	63.6	66.0	62.5
01:05 AM - 01:10 AM	61.3	63.6	60.0
01:10 AM - 01:15 AM	57.3	64.0	50.7
01:15 AM - 01:20 AM	50.6	53.0	49.5
01:20 AM - 01:25 AM	50.3	52.6	49.0
01:25 AM - 01:30 AM	54.7	61.6	50.7
01:30 AM - 01:35 AM	51.1	57.7	50.7
01:35 AM - 01:40 AM	50.9	52.5	50.6
01:40 AM - 01:45 AM	50.8	51.9	50.4
01:45 AM - 01:50 AM	51.0	53.8	50.7
01:50 AM - 01:55 AM	51.0	56.7	50.6
01:55 AM - 02:00 AM	51.0	54.7	50.6
02:00 AM - 02:05 AM	50.9	54.4	50.5
02:05 AM - 02:10 AM	50.9	52.3	50.5
02:10 AM - 02:15 AM	50.8	52.3	50.5
02:15 AM - 02:20 AM	50.9	52.5	50.6
02:20 AM - 02:25 AM	50.9	52.1	50.6
02:25 AM - 02:30 AM	50.9	52.2	50.6
02:30 AM - 02:35 AM	50.9	51.9	50.6
02:35 AM - 02:40 AM	50.9	56.3	50.5
02:40 AM - 02:45 AM	50.8	51.9	50.4
02:45 AM - 02:50 AM	50.8	51.8	50.5
02:50 AM - 02:55 AM	50.8	52.2	50.5
02:55 AM - 03:00 AM	50.8	51.9	50.5
03:00 AM - 03:05 AM	50.9	52.6	50.5
03:05 AM - 03:10 AM	50.7	51.9	50.4
03:10 AM - 03:15 AM	50.7	53.4	50.4
03:15 AM - 03:20 AM	51.0	60.7	50.4
03:20 AM - 03:25 AM	50.6	51.8	50.3
03:25 AM - 03:30 AM	50.9	52.0	50.5
03:30 AM - 03:35 AM	50.7	51.9	50.4
03:35 AM - 03:40 AM	50.7	52.2	50.3
03:40 AM - 03:45 AM	50.8	51.9	50.4
03:45 AM - 03:50 AM	50.7	52.8	50.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957050-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-9
Parameter Noise
Location รั้วโรงกลั่นปิโตรเลียม (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	50.8	52.0	50.5
03:55 AM - 04:00 AM	50.9	53.8	50.5
04:00 AM - 04:05 AM	51.2	54.0	50.5
04:05 AM - 04:10 AM	51.1	55.5	50.4
04:10 AM - 04:15 AM	51.9	56.3	50.6
04:15 AM - 04:20 AM	51.1	54.9	50.5
04:20 AM - 04:25 AM	51.2	54.4	50.5
04:25 AM - 04:30 AM	50.9	54.5	50.5
04:30 AM - 04:35 AM	51.3	60.1	50.5
04:35 AM - 04:40 AM	50.9	53.7	50.5
04:40 AM - 04:45 AM	51.1	55.5	50.4
04:45 AM - 04:50 AM	51.0	54.2	50.5
04:50 AM - 04:55 AM	50.8	53.8	50.4
04:55 AM - 05:00 AM	51.5	59.1	50.4
05:00 AM - 05:05 AM	50.9	54.5	50.4
05:05 AM - 05:10 AM	50.9	54.1	50.4
05:10 AM - 05:15 AM	51.2	54.8	50.6
05:15 AM - 05:20 AM	51.0	54.1	50.6
05:20 AM - 05:25 AM	51.1	54.2	50.6
05:25 AM - 05:30 AM	51.2	54.1	50.7
05:30 AM - 05:35 AM	51.2	54.5	50.6
05:35 AM - 05:40 AM	51.3	57.1	50.7
05:40 AM - 05:45 AM	51.2	53.6	50.7
05:45 AM - 05:50 AM	51.3	54.9	41.4
05:50 AM - 05:55 AM	52.4	55.1	49.3
05:55 AM - 06:00 AM	51.1	54.2	49.1
06:00 AM - 07:00 AM	53.4	69.6	51.8
07:00 AM - 08:00 AM	55.7	86.0	52.6
08:00 AM - 09:00 AM	54.9	77.9	51.8
09:00 AM - 10:00 AM	58.2	85.9	54.8
10:00 AM - 11:00 AM	56.4	73.4	54.2
11:00 AM - 12:00 PM	55.8	79.6	53.0

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

WibB.

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Huakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957051-1

Sample No. : 2432591-10
Parameter : Noise
Location : บริเวณโครงการพัฒนาศูนย์กลาง (GPS 47P 0735700, 1409731) [Shut down]
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	53.7	73.8	51.6
01:00 PM - 02:00 PM	54.7	83.8	51.8
02:00 PM - 03:00 PM	55.0	65.9	51.9
03:00 PM - 04:00 PM	55.7	73.4	53.1
04:00 PM - 05:00 PM	53.7	73.4	51.3
05:00 PM - 06:00 PM	54.3	69.3	52.2
06:00 PM - 07:00 PM	58.7	77.1	52.8
07:00 PM - 08:00 PM	58.6	72.6	57.0
08:00 PM - 09:00 PM	52.3	72.4	51.0
09:00 PM - 10:00 PM	51.4	66.2	50.7
10:00 PM - 10:05 PM	51.4	53.5	50.8
10:05 PM - 10:10 PM	51.3	54.3	50.7
10:10 PM - 10:15 PM	51.0	53.5	50.6
10:15 PM - 10:20 PM	51.0	53.3	50.5
10:20 PM - 10:25 PM	54.3	58.0	51.0
10:25 PM - 10:30 PM	56.8	59.2	56.1
10:30 PM - 10:35 PM	54.9	58.1	54.0
10:35 PM - 10:40 PM	53.1	55.5	52.0
10:40 PM - 10:45 PM	51.9	59.7	51.0
10:45 PM - 10:50 PM	52.3	66.0	50.7
10:50 PM - 10:55 PM	51.9	64.2	50.6
10:55 PM - 11:00 PM	51.2	54.4	50.5
11:00 PM - 11:05 PM	51.3	56.5	50.6
11:05 PM - 11:10 PM	51.4	55.5	50.6
11:10 PM - 11:15 PM	51.2	53.9	50.6
11:15 PM - 11:20 PM	51.4	54.3	50.8
11:20 PM - 11:25 PM	51.4	54.5	50.8
11:25 PM - 11:30 PM	51.0	53.8	50.5
11:30 PM - 11:35 PM	51.4	54.5	50.8
11:35 PM - 11:40 PM	51.5	54.2	50.8
11:40 PM - 11:45 PM	52.9	60.7	51.9
11:45 PM - 11:50 PM	52.6	55.1	51.7
11:50 PM - 11:55 PM	52.8	56.6	51.3
11:55 PM - 12:00 AM	51.1	53.5	50.6
12:00 AM - 12:05 AM	51.1	53.6	50.6
12:05 AM - 12:10 AM	51.4	60.4	50.7
12:10 AM - 12:15 AM	51.3	54.3	50.7
12:15 AM - 12:20 AM	51.4	55.3	50.7
12:20 AM - 12:25 AM	51.5	56.3	50.7
12:25 AM - 12:30 AM	51.3	54.3	50.8

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957051-1

Sample No. : 2432591-10
Parameter : Noise
Location : บริเวณโครงการพัฒนาศูนย์กลาง (GPS 47P 0735700, 1409731) [Shut down]
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	51.3	55.0	50.8
12:35 AM - 12:40 AM	52.4	55.4	51.8
12:40 AM - 12:45 AM	52.0	54.3	51.4
12:45 AM - 12:50 AM	54.2	59.8	51.1
12:50 AM - 12:55 AM	51.8	59.0	50.6
12:55 AM - 01:00 AM	51.3	56.3	50.7
01:00 AM - 01:05 AM	51.0	53.9	50.5
01:05 AM - 01:10 AM	51.0	52.1	50.6
01:10 AM - 01:15 AM	51.3	54.2	50.7
01:15 AM - 01:20 AM	51.5	54.4	50.6
01:20 AM - 01:25 AM	51.2	54.6	50.6
01:25 AM - 01:30 AM	51.3	55.6	50.6
01:30 AM - 01:35 AM	51.1	53.6	50.5
01:35 AM - 01:40 AM	51.1	53.2	50.5
01:40 AM - 01:45 AM	51.1	53.9	50.5
01:45 AM - 01:50 AM	51.0	53.5	50.5
01:50 AM - 01:55 AM	51.0	54.1	50.5
01:55 AM - 02:00 AM	52.0	53.8	51.0
02:00 AM - 02:05 AM	52.5	59.9	51.2
02:05 AM - 02:10 AM	51.9	58.5	50.8
02:10 AM - 02:15 AM	51.0	53.6	50.4
02:15 AM - 02:20 AM	51.1	52.9	50.6
02:20 AM - 02:25 AM	51.0	53.9	50.5
02:25 AM - 02:30 AM	51.9	57.5	50.8
02:30 AM - 02:35 AM	51.1	53.7	50.6
02:35 AM - 02:40 AM	51.4	59.1	50.5
02:40 AM - 02:45 AM	50.9	52.3	50.5
02:45 AM - 02:50 AM	50.9	52.3	50.4
02:50 AM - 02:55 AM	51.0	54.5	50.5
02:55 AM - 03:00 AM	51.0	52.4	50.5
03:00 AM - 03:05 AM	50.9	52.4	50.5
03:05 AM - 03:10 AM	50.9	54.8	50.5
03:10 AM - 03:15 AM	51.8	65.2	50.6
03:15 AM - 03:20 AM	50.9	52.6	50.4
03:20 AM - 03:25 AM	50.9	52.5	50.4
03:25 AM - 03:30 AM	51.0	52.7	50.6
03:30 AM - 03:35 AM	50.9	52.4	50.5
03:35 AM - 03:40 AM	50.7	52.1	50.3
03:40 AM - 03:45 AM	50.6	52.0	50.2
03:45 AM - 03:50 AM	51.1	52.8	50.3

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957051-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-10
Parameter Noise
Location รั้วรั้วโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	52.4	61.3	51.6
03:55 AM - 04:00 AM	51.2	57.2	50.6
04:00 AM - 04:05 AM	51.0	52.7	50.5
04:05 AM - 04:10 AM	51.0	52.8	50.5
04:10 AM - 04:15 AM	50.8	52.3	50.2
04:15 AM - 04:20 AM	50.9	52.3	50.4
04:20 AM - 04:25 AM	51.1	58.4	50.4
04:25 AM - 04:30 AM	50.8	52.1	50.3
04:30 AM - 04:35 AM	51.0	52.3	50.5
04:35 AM - 04:40 AM	50.9	52.1	50.5
04:40 AM - 04:45 AM	50.8	52.3	50.4
04:45 AM - 04:50 AM	50.7	52.1	50.3
04:50 AM - 04:55 AM	50.7	53.5	50.2
04:55 AM - 05:00 AM	50.8	52.3	50.4
05:00 AM - 05:05 AM	51.0	54.6	50.4
05:05 AM - 05:10 AM	50.7	54.9	50.3
05:10 AM - 05:15 AM	56.8	80.7	50.5
05:15 AM - 05:20 AM	54.8	65.6	54.3
05:20 AM - 05:25 AM	55.9	63.9	55.3
05:25 AM - 05:30 AM	54.5	80.1	50.3
05:30 AM - 05:35 AM	50.8	52.2	50.5
05:35 AM - 05:40 AM	50.7	51.8	50.3
05:40 AM - 05:45 AM	50.8	52.2	50.4
05:45 AM - 05:50 AM	50.8	52.2	50.4
05:50 AM - 05:55 AM	51.0	56.0	50.4
05:55 AM - 06:00 AM	56.5	76.1	50.7
06:00 AM - 07:00 AM	60.9	77.9	59.4
07:00 AM - 08:00 AM	56.5	85.3	51.7
08:00 AM - 09:00 AM	58.4	78.2	55.9
09:00 AM - 10:00 AM	58.9	87.5	53.2
10:00 AM - 11:00 AM	54.2	76.6	50.7
11:00 AM - 12:00 PM	57.1	85.8	53.3

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957052-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-11
Parameter Noise
Location รั้วรั้วโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.8	78.3	51.1
01:00 PM - 02:00 PM	53.6	73.9	50.6
02:00 PM - 03:00 PM	59.4	73.3	56.0
03:00 PM - 04:00 PM	53.8	81.4	50.9
04:00 PM - 05:00 PM	54.6	77.4	51.3
05:00 PM - 06:00 PM	53.4	72.0	51.5
06:00 PM - 07:00 PM	60.1	73.6	57.5
07:00 PM - 08:00 PM	52.1	70.2	51.1
08:00 PM - 09:00 PM	51.5	58.7	50.9
09:00 PM - 10:00 PM	53.0	65.5	52.0
10:00 PM - 10:05 PM	51.7	53.8	51.1
10:05 PM - 10:10 PM	52.0	56.0	51.2
10:10 PM - 10:15 PM	51.9	55.3	51.2
10:15 PM - 10:20 PM	51.7	54.8	51.1
10:20 PM - 10:25 PM	51.9	55.1	51.3
10:25 PM - 10:30 PM	51.6	59.7	51.0
10:30 PM - 10:35 PM	51.6	54.7	51.0
10:35 PM - 10:40 PM	57.4	60.3	54.3
10:40 PM - 10:45 PM	57.7	60.4	55.9
10:45 PM - 10:50 PM	53.8	56.6	52.1
10:50 PM - 10:55 PM	52.1	55.0	51.5
10:55 PM - 11:00 PM	51.5	53.5	51.1
11:00 PM - 11:05 PM	52.6	55.8	51.2
11:05 PM - 11:10 PM	53.4	55.3	52.7
11:10 PM - 11:15 PM	54.5	57.6	53.3
11:15 PM - 11:20 PM	54.2	57.9	52.2
11:20 PM - 11:25 PM	56.3	59.4	54.9
11:25 PM - 11:30 PM	53.1	58.5	51.4
11:30 PM - 11:35 PM	51.9	54.7	51.3
11:35 PM - 11:40 PM	52.2	55.2	51.4
11:40 PM - 11:45 PM	52.2	54.5	51.4
11:45 PM - 11:50 PM	52.4	56.4	51.5
11:50 PM - 11:55 PM	52.2	54.7	51.4
11:55 PM - 12:00 AM	52.2	55.1	51.4
12:00 AM - 12:05 AM	53.7	68.5	51.3
12:05 AM - 12:10 AM	52.2	55.3	51.2
12:10 AM - 12:15 AM	52.8	60.4	51.4
12:15 AM - 12:20 AM	51.8	54.0	51.2
12:20 AM - 12:25 AM	52.0	55.8	51.4
12:25 AM - 12:30 AM	52.6	61.3	51.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957052-1

Page 2 of 3

Sample No. 2432591-11
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	51.8	53.9	51.1
12:35 AM - 12:40 AM	51.9	56.2	51.1
12:40 AM - 12:45 AM	51.7	54.4	51.0
12:45 AM - 12:50 AM	51.8	57.3	51.0
12:50 AM - 12:55 AM	51.5	54.7	50.9
12:55 AM - 01:00 AM	52.1	57.3	51.0
01:00 AM - 01:05 AM	51.6	54.1	50.9
01:05 AM - 01:10 AM	52.0	58.8	51.0
01:10 AM - 01:15 AM	52.8	62.8	51.6
01:15 AM - 01:20 AM	52.5	55.2	51.6
01:20 AM - 01:25 AM	51.8	54.3	51.1
01:25 AM - 01:30 AM	51.6	54.1	51.0
01:30 AM - 01:35 AM	51.7	55.8	51.0
01:35 AM - 01:40 AM	51.5	54.2	50.8
01:40 AM - 01:45 AM	51.7	55.2	51.0
01:45 AM - 01:50 AM	51.7	57.7	50.9
01:50 AM - 01:55 AM	51.6	54.3	50.9
01:55 AM - 02:00 AM	51.5	54.0	50.8
02:00 AM - 02:05 AM	51.5	56.2	50.7
02:05 AM - 02:10 AM	51.4	58.7	50.6
02:10 AM - 02:15 AM	51.5	53.8	50.7
02:15 AM - 02:20 AM	51.5	54.6	50.6
02:20 AM - 02:25 AM	51.4	54.1	50.7
02:25 AM - 02:30 AM	51.1	53.5	50.6
02:30 AM - 02:35 AM	51.2	54.1	50.6
02:35 AM - 02:40 AM	51.2	55.4	50.6
02:40 AM - 02:45 AM	51.3	53.8	50.6
02:45 AM - 02:50 AM	51.2	53.4	50.6
02:50 AM - 02:55 AM	52.6	65.3	50.6
02:55 AM - 03:00 AM	51.1	53.5	50.4
03:00 AM - 03:05 AM	51.0	53.3	50.4
03:05 AM - 03:10 AM	51.3	54.8	50.6
03:10 AM - 03:15 AM	51.2	53.9	50.5
03:15 AM - 03:20 AM	51.2	55.4	50.5
03:20 AM - 03:25 AM	51.0	53.5	50.5
03:25 AM - 03:30 AM	51.2	54.9	50.5
03:30 AM - 03:35 AM	51.2	53.4	50.6
03:35 AM - 03:40 AM	51.1	53.6	50.5
03:40 AM - 03:45 AM	51.1	53.4	50.5
03:45 AM - 03:50 AM	51.2	54.1	50.2

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957052-1

Page 3 of 3

Sample No. 2432591-11
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	51.4	55.1	50.6
03:55 AM - 04:00 AM	51.2	54.1	50.5
04:00 AM - 04:05 AM	50.9	54.4	50.3
04:05 AM - 04:10 AM	51.1	53.4	50.5
04:10 AM - 04:15 AM	51.0	53.5	50.3
04:15 AM - 04:20 AM	51.4	56.8	50.5
04:20 AM - 04:25 AM	51.0	53.5	50.3
04:25 AM - 04:30 AM	51.1	53.5	50.5
04:30 AM - 04:35 AM	50.7	53.7	50.2
04:35 AM - 04:40 AM	50.8	53.2	50.2
04:40 AM - 04:45 AM	50.8	53.3	50.4
04:45 AM - 04:50 AM	50.7	53.1	50.2
04:50 AM - 04:55 AM	51.1	55.7	50.4
04:55 AM - 05:00 AM	51.0	54.1	50.4
05:00 AM - 05:05 AM	50.9	53.9	50.3
05:05 AM - 05:10 AM	51.3	54.2	50.5
05:10 AM - 05:15 AM	51.1	54.2	50.5
05:15 AM - 05:20 AM	51.4	54.1	50.6
05:20 AM - 05:25 AM	51.4	54.5	50.5
05:25 AM - 05:30 AM	51.2	54.7	50.4
05:30 AM - 05:35 AM	51.1	54.8	50.4
05:35 AM - 05:40 AM	51.1	54.2	50.5
05:40 AM - 05:45 AM	51.5	57.8	50.6
05:45 AM - 05:50 AM	51.6	54.6	50.7
05:50 AM - 05:55 AM	66.6	68.9	62.2
05:55 AM - 06:00 AM	66.9	68.6	65.2
06:00 AM - 07:00 AM	54.4	70.8	51.6
07:00 AM - 08:00 AM	52.2	63.7	51.2
08:00 AM - 09:00 AM	52.8	73.2	51.0
09:00 AM - 10:00 AM	51.9	70.2	50.8
10:00 AM - 11:00 AM	53.5	72.3	51.2
11:00 AM - 12:00 PM	52.0	65.2	50.9

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957053-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-12
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	54.0	70.0	51.8
01:00 PM - 02:00 PM	54.4	63.8	52.1
02:00 PM - 03:00 PM	55.3	70.4	53.4
03:00 PM - 04:00 PM	52.3	73.5	50.7
04:00 PM - 05:00 PM	53.2	66.6	51.5
05:00 PM - 06:00 PM	52.7	62.7	51.5
06:00 PM - 07:00 PM	59.9	74.4	58.1
07:00 PM - 08:00 PM	53.5	70.2	51.3
08:00 PM - 09:00 PM	51.9	59.5	51.2
09:00 PM - 10:00 PM	51.5	61.9	50.8
10:00 PM - 10:05 PM	51.3	54.3	50.8
10:05 PM - 10:10 PM	51.4	57.9	50.8
10:10 PM - 10:15 PM	51.0	52.3	50.5
10:15 PM - 10:20 PM	51.2	53.2	50.8
10:20 PM - 10:25 PM	51.4	58.5	50.8
10:25 PM - 10:30 PM	51.3	55.6	50.8
10:30 PM - 10:35 PM	51.2	55.7	50.8
10:35 PM - 10:40 PM	51.5	59.3	50.6
10:40 PM - 10:45 PM	51.1	57.6	50.6
10:45 PM - 10:50 PM	51.5	58.7	50.7
10:50 PM - 10:55 PM	51.2	52.9	50.8
10:55 PM - 11:00 PM	51.0	53.2	50.6
11:00 PM - 11:05 PM	50.9	52.9	50.6
11:05 PM - 11:10 PM	51.4	59.1	50.9
11:10 PM - 11:15 PM	51.1	58.6	50.6
11:15 PM - 11:20 PM	51.2	53.2	50.6
11:20 PM - 11:25 PM	51.2	53.2	50.6
11:25 PM - 11:30 PM	60.8	65.0	58.6
11:30 PM - 11:35 PM	48.8	53.0	46.6
11:35 PM - 11:40 PM	51.9	53.5	51.2
11:40 PM - 11:45 PM	49.1	53.1	46.9
11:45 PM - 11:50 PM	51.3	53.0	50.8
11:50 PM - 11:55 PM	51.3	53.6	50.8
11:55 PM - 12:00 AM	51.9	60.7	50.8
12:00 AM - 12:05 AM	51.3	56.3	50.7
12:05 AM - 12:10 AM	51.4	55.9	50.9
12:10 AM - 12:15 AM	52.6	72.6	50.7
12:15 AM - 12:20 AM	51.0	52.9	50.6
12:20 AM - 12:25 AM	51.5	60.9	50.5
12:25 AM - 12:30 AM	51.1	55.8	50.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957053-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-12
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 06 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	51.2	56.5	50.6
12:35 AM - 12:40 AM	51.3	55.8	50.7
12:40 AM - 12:45 AM	60.6	65.5	56.8
12:45 AM - 12:50 AM	51.1	52.8	50.6
12:50 AM - 12:55 AM	53.9	64.1	50.6
12:55 AM - 01:00 AM	55.9	70.1	51.2
01:00 AM - 01:05 AM	54.1	64.6	51.0
01:05 AM - 01:10 AM	51.6	59.3	50.5
01:10 AM - 01:15 AM	50.9	57.1	50.3
01:15 AM - 01:20 AM	51.0	52.7	50.5
01:20 AM - 01:25 AM	50.9	54.8	50.4
01:25 AM - 01:30 AM	51.1	54.6	50.6
01:30 AM - 01:35 AM	50.8	53.2	50.4
01:35 AM - 01:40 AM	50.8	54.6	50.4
01:40 AM - 01:45 AM	50.9	54.3	50.5
01:45 AM - 01:50 AM	51.0	52.2	50.6
01:50 AM - 01:55 AM	51.0	54.5	50.5
01:55 AM - 02:00 AM	52.4	65.5	50.5
02:00 AM - 02:05 AM	53.9	60.0	53.3
02:05 AM - 02:10 AM	53.3	58.6	52.5
02:10 AM - 02:15 AM	51.4	64.6	50.5
02:15 AM - 02:20 AM	51.0	53.2	50.6
02:20 AM - 02:25 AM	51.0	52.3	50.6
02:25 AM - 02:30 AM	50.9	53.5	50.5
02:30 AM - 02:35 AM	50.9	60.7	50.5
02:35 AM - 02:40 AM	50.9	52.2	50.5
02:40 AM - 02:45 AM	50.8	51.9	50.4
02:45 AM - 02:50 AM	50.9	52.0	50.5
02:50 AM - 02:55 AM	51.1	52.3	50.7
02:55 AM - 03:00 AM	51.0	52.5	50.6
03:00 AM - 03:05 AM	50.8	52.4	50.5
03:05 AM - 03:10 AM	58.8	61.9	58.4
03:10 AM - 03:15 AM	62.0	63.0	61.6
03:15 AM - 03:20 AM	58.8	62.2	57.7
03:20 AM - 03:25 AM	58.4	61.4	55.2
03:25 AM - 03:30 AM	59.6	62.0	57.4
03:30 AM - 03:35 AM	52.5	55.3	51.2
03:35 AM - 03:40 AM	51.3	53.6	50.8
03:40 AM - 03:45 AM	52.2	62.6	50.9
03:45 AM - 03:50 AM	51.0	53.4	50.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957053-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-12
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 05 - 07, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	51.9	62.6	50.6
03:55 AM - 04:00 AM	51.1	52.6	50.6
04:00 AM - 04:05 AM	50.8	52.0	50.5
04:05 AM - 04:10 AM	50.9	52.2	50.5
04:10 AM - 04:15 AM	50.9	52.1	50.5
04:15 AM - 04:20 AM	50.9	52.3	50.5
04:20 AM - 04:25 AM	50.9	54.2	50.5
04:25 AM - 04:30 AM	50.9	52.1	50.5
04:30 AM - 04:35 AM	50.8	52.5	50.4
04:35 AM - 04:40 AM	50.9	53.5	50.4
04:40 AM - 04:45 AM	50.8	53.1	50.5
04:45 AM - 04:50 AM	51.0	53.0	50.6
04:50 AM - 04:55 AM	50.8	52.1	50.4
04:55 AM - 05:00 AM	51.0	54.6	50.6
05:00 AM - 05:05 AM	51.5	62.7	50.5
05:05 AM - 05:10 AM	51.0	53.0	50.5
05:10 AM - 05:15 AM	50.9	52.8	50.5
05:15 AM - 05:20 AM	54.5	72.3	50.4
05:20 AM - 05:25 AM	50.7	54.2	50.4
05:25 AM - 05:30 AM	50.9	57.6	50.4
05:30 AM - 05:35 AM	50.9	59.3	50.5
05:35 AM - 05:40 AM	51.7	61.9	50.7
05:40 AM - 05:45 AM	50.8	52.0	50.5
05:45 AM - 05:50 AM	61.8	64.1	61.4
05:50 AM - 05:55 AM	62.1	67.4	61.6
05:55 AM - 06:00 AM	62.9	69.6	61.8
06:00 AM - 07:00 AM	52.9	75.5	51.0
07:00 AM - 08:00 AM	52.0	66.0	51.0
08:00 AM - 09:00 AM	52.0	65.3	50.7
09:00 AM - 10:00 AM	56.9	74.9	54.0
10:00 AM - 11:00 AM	51.3	60.9	50.3
11:00 AM - 12:00 PM	51.5	65.3	50.6

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกินจากค่าการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phua Daeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957054-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-13
Parameter Noise
Location บริเวณโครงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.6	69.2	50.5
01:00 PM - 02:00 PM	53.5	71.6	52.0
02:00 PM - 03:00 PM	55.9	67.5	52.2
03:00 PM - 04:00 PM	56.2	68.7	54.0
04:00 PM - 05:00 PM	52.3	64.3	51.3
05:00 PM - 06:00 PM	51.8	67.3	51.0
06:00 PM - 07:00 PM	52.6	69.0	51.4
07:00 PM - 08:00 PM	58.2	72.6	55.6
08:00 PM - 09:00 PM	53.9	75.3	52.6
09:00 PM - 10:00 PM	52.0	58.4	51.2
10:00 PM - 10:05 PM	51.1	57.0	50.6
10:05 PM - 10:10 PM	51.1	54.2	50.6
10:10 PM - 10:15 PM	51.5	56.6	50.7
10:15 PM - 10:20 PM	51.0	55.1	50.4
10:20 PM - 10:25 PM	51.0	54.0	50.7
10:25 PM - 10:30 PM	50.9	53.2	50.5
10:30 PM - 10:35 PM	50.8	52.1	50.5
10:35 PM - 10:40 PM	53.4	72.1	50.5
10:40 PM - 10:45 PM	51.5	63.0	50.5
10:45 PM - 10:50 PM	51.1	52.9	50.6
10:50 PM - 10:55 PM	51.0	52.3	50.6
10:55 PM - 11:00 PM	51.0	53.7	50.6
11:00 PM - 11:05 PM	51.0	56.3	50.6
11:05 PM - 11:10 PM	51.0	53.4	50.7
11:10 PM - 11:15 PM	51.0	52.9	50.7
11:15 PM - 11:20 PM	50.9	51.9	50.6
11:20 PM - 11:25 PM	51.4	55.5	50.6
11:25 PM - 11:30 PM	51.0	54.6	50.7
11:30 PM - 11:35 PM	50.9	53.1	50.6
11:35 PM - 11:40 PM	51.0	54.2	50.6
11:40 PM - 11:45 PM	51.1	53.0	50.6
11:45 PM - 11:50 PM	53.4	69.1	50.4
11:50 PM - 11:55 PM	50.7	59.4	50.3
11:55 PM - 12:00 AM	50.7	54.5	50.4
12:00 AM - 12:05 AM	50.9	60.1	50.3
12:05 AM - 12:10 AM	51.0	58.9	50.4
12:10 AM - 12:15 AM	50.8	55.0	50.4
12:15 AM - 12:20 AM	50.7	51.9	50.4
12:20 AM - 12:25 AM	50.8	54.2	50.3
12:25 AM - 12:30 AM	50.8	55.1	50.5

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phua Daeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957054-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-13
Parameter Noise
Location รั้วบริเวณการดำเนินงานท่อแอล (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	51.0	54.9	50.4
12:35 AM - 12:40 AM	50.8	55.0	50.4
12:40 AM - 12:45 AM	51.0	54.4	50.5
12:45 AM - 12:50 AM	50.8	53.4	50.5
12:50 AM - 12:55 AM	51.1	56.9	50.5
12:55 AM - 01:00 AM	50.7	55.5	50.4
01:00 AM - 01:05 AM	50.8	52.3	50.4
01:05 AM - 01:10 AM	50.8	54.1	50.4
01:10 AM - 01:15 AM	51.1	56.5	50.5
01:15 AM - 01:20 AM	51.0	52.7	50.6
01:20 AM - 01:25 AM	57.0	61.5	50.7
01:25 AM - 01:30 AM	60.7	62.7	59.9
01:30 AM - 01:35 AM	60.2	63.1	58.5
01:35 AM - 01:40 AM	56.2	59.3	54.2
01:40 AM - 01:45 AM	61.6	63.8	60.6
01:45 AM - 01:50 AM	52.6	54.9	51.2
01:50 AM - 01:55 AM	50.9	52.7	50.3
01:55 AM - 02:00 AM	50.7	52.6	50.2
02:00 AM - 02:05 AM	50.8	53.1	50.4
02:05 AM - 02:10 AM	50.8	52.3	50.5
02:10 AM - 02:15 AM	51.1	72.9	50.3
02:15 AM - 02:20 AM	50.7	52.0	50.3
02:20 AM - 02:25 AM	50.8	52.8	50.4
02:25 AM - 02:30 AM	50.8	52.8	50.4
02:30 AM - 02:35 AM	50.6	52.2	50.2
02:35 AM - 02:40 AM	51.0	52.7	50.4
02:40 AM - 02:45 AM	51.1	53.2	50.5
02:45 AM - 02:50 AM	51.1	53.4	50.4
02:50 AM - 02:55 AM	51.2	54.5	50.4
02:55 AM - 03:00 AM	51.2	54.1	50.5
03:00 AM - 03:05 AM	51.3	53.9	50.7
03:05 AM - 03:10 AM	51.2	53.6	50.5
03:10 AM - 03:15 AM	51.3	58.9	50.4
03:15 AM - 03:20 AM	51.1	55.6	50.4
03:20 AM - 03:25 AM	51.2	53.8	50.5
03:25 AM - 03:30 AM	51.3	54.9	50.4
03:30 AM - 03:35 AM	51.1	53.7	50.5
03:35 AM - 03:40 AM	51.2	57.6	50.4
03:40 AM - 03:45 AM	51.2	58.0	50.5
03:45 AM - 03:50 AM	51.1	53.8	50.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957054-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-13
Parameter Noise
Location รั้วบริเวณการดำเนินงานท่อแอล (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	51.1	53.6	50.4
03:55 AM - 04:00 AM	51.1	55.7	50.4
04:00 AM - 04:05 AM	51.1	53.6	50.4
04:05 AM - 04:10 AM	51.1	53.7	50.3
04:10 AM - 04:15 AM	51.2	54.1	50.4
04:15 AM - 04:20 AM	51.2	53.8	50.5
04:20 AM - 04:25 AM	51.0	55.2	50.3
04:25 AM - 04:30 AM	50.8	53.4	50.3
04:30 AM - 04:35 AM	50.9	53.6	50.3
04:35 AM - 04:40 AM	51.0	53.6	50.3
04:40 AM - 04:45 AM	51.0	53.9	50.4
04:45 AM - 04:50 AM	51.7	60.6	50.4
04:50 AM - 04:55 AM	51.1	57.6	50.4
04:55 AM - 05:00 AM	50.9	55.0	50.4
05:00 AM - 05:05 AM	50.8	57.2	50.3
05:05 AM - 05:10 AM	50.6	51.7	50.1
05:10 AM - 05:15 AM	50.6	54.0	50.1
05:15 AM - 05:20 AM	50.8	54.7	50.2
05:20 AM - 05:25 AM	50.8	53.1	50.2
05:25 AM - 05:30 AM	50.9	55.3	50.3
05:30 AM - 05:35 AM	50.7	54.0	50.3
05:35 AM - 05:40 AM	50.6	53.0	50.2
05:40 AM - 05:45 AM	50.7	61.1	50.1
05:45 AM - 05:50 AM	50.4	52.4	50.0
05:50 AM - 05:55 AM	50.5	52.6	50.2
05:55 AM - 06:00 AM	50.7	54.2	50.3
06:00 AM - 07:00 AM	54.9	67.5	50.2
07:00 AM - 08:00 AM	53.8	71.9	52.5
08:00 AM - 09:00 AM	52.1	65.9	51.2
09:00 AM - 10:00 AM	51.7	72.3	50.7
10:00 AM - 11:00 AM	51.9	71.4	50.6
11:00 AM - 12:00 PM	53.9	65.7	51.2

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการขบวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phukdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957055-1

Sample No. 2432591-14
Parameter Noise
Location โรงงานอุตสาหกรรมปิโตรเคมี (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	51.5	61.3	50.6
01:00 PM - 02:00 PM	52.1	65.1	50.9
02:00 PM - 03:00 PM	52.0	65.9	50.8
03:00 PM - 04:00 PM	55.7	73.6	53.0
04:00 PM - 05:00 PM	52.7	75.1	51.5
05:00 PM - 06:00 PM	52.4	72.7	50.8
06:00 PM - 07:00 PM	52.2	64.6	51.0
07:00 PM - 08:00 PM	52.1	66.6	51.2
08:00 PM - 09:00 PM	51.6	63.7	50.8
09:00 PM - 10:00 PM	51.3	66.9	50.6
10:00 PM - 10:05 PM	51.4	62.8	50.6
10:05 PM - 10:10 PM	51.1	54.7	50.5
10:10 PM - 10:15 PM	50.8	53.8	50.3
10:15 PM - 10:20 PM	51.2	56.9	50.5
10:20 PM - 10:25 PM	50.7	54.1	50.3
10:25 PM - 10:30 PM	50.8	53.3	50.4
10:30 PM - 10:35 PM	51.3	54.6	50.7
10:35 PM - 10:40 PM	51.1	53.7	50.6
10:40 PM - 10:45 PM	54.1	58.2	52.7
10:45 PM - 10:50 PM	54.3	56.9	52.7
10:50 PM - 10:55 PM	57.1	59.4	56.2
10:55 PM - 11:00 PM	57.9	60.2	56.6
11:00 PM - 11:05 PM	56.9	59.5	54.9
11:05 PM - 11:10 PM	54.4	63.0	52.6
11:10 PM - 11:15 PM	51.3	53.7	50.8
11:15 PM - 11:20 PM	51.1	54.6	50.7
11:20 PM - 11:25 PM	51.1	56.2	50.6
11:25 PM - 11:30 PM	51.1	52.7	50.7
11:30 PM - 11:35 PM	51.0	53.3	50.6
11:35 PM - 11:40 PM	51.2	55.2	50.8
11:40 PM - 11:45 PM	51.1	53.8	50.6
11:45 PM - 11:50 PM	51.3	53.6	50.7
11:50 PM - 11:55 PM	52.3	53.2	51.9
11:55 PM - 12:00 AM	51.7	53.1	51.1
12:00 AM - 12:05 AM	51.2	52.6	50.8
12:05 AM - 12:10 AM	51.3	55.3	50.8
12:10 AM - 12:15 AM	51.0	52.4	50.7
12:15 AM - 12:20 AM	51.1	52.7	50.7
12:20 AM - 12:25 AM	51.3	55.6	50.8
12:25 AM - 12:30 AM	51.2	54.6	50.7

Page 1 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957055-1

Sample No. 2432591-14
Parameter Noise
Location โรงงานอุตสาหกรรมปิโตรเคมี (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:30 AM - 12:35 AM	50.9	52.2	50.6
12:35 AM - 12:40 AM	51.0	52.3	50.7
12:40 AM - 12:45 AM	51.1	52.3	50.8
12:45 AM - 12:50 AM	51.4	57.3	50.8
12:50 AM - 12:55 AM	51.0	52.1	50.6
12:55 AM - 01:00 AM	50.9	52.2	50.5
01:00 AM - 01:05 AM	51.0	54.6	50.5
01:05 AM - 01:10 AM	50.9	53.3	50.6
01:10 AM - 01:15 AM	50.8	52.4	50.5
01:15 AM - 01:20 AM	50.9	55.5	50.5
01:20 AM - 01:25 AM	51.0	54.0	50.6
01:25 AM - 01:30 AM	51.0	52.3	50.7
01:30 AM - 01:35 AM	50.9	55.2	50.6
01:35 AM - 01:40 AM	51.0	58.8	50.5
01:40 AM - 01:45 AM	51.1	58.2	50.6
01:45 AM - 01:50 AM	51.0	54.5	50.5
01:50 AM - 01:55 AM	51.1	53.2	50.7
01:55 AM - 02:00 AM	50.9	52.4	50.6
02:00 AM - 02:05 AM	51.1	57.6	50.6
02:05 AM - 02:10 AM	51.0	52.0	50.7
02:10 AM - 02:15 AM	51.1	56.5	50.7
02:15 AM - 02:20 AM	50.9	52.4	50.6
02:20 AM - 02:25 AM	51.0	53.9	50.6
02:25 AM - 02:30 AM	52.8	54.1	52.4
02:30 AM - 02:35 AM	51.4	53.9	50.6
02:35 AM - 02:40 AM	50.9	62.8	50.5
02:40 AM - 02:45 AM	50.9	53.5	50.6
02:45 AM - 02:50 AM	51.0	63.9	50.6
02:50 AM - 02:55 AM	51.0	54.0	50.6
02:55 AM - 03:00 AM	51.2	56.6	50.5
03:00 AM - 03:05 AM	51.0	55.7	50.5
03:05 AM - 03:10 AM	50.9	52.3	50.6
03:10 AM - 03:15 AM	50.8	52.0	50.5
03:15 AM - 03:20 AM	50.8	54.3	50.4
03:20 AM - 03:25 AM	50.7	51.8	50.4
03:25 AM - 03:30 AM	51.8	61.9	50.4
03:30 AM - 03:35 AM	53.1	68.9	50.4
03:35 AM - 03:40 AM	51.6	63.6	50.4
03:40 AM - 03:45 AM	58.7	85.2	55.5
03:45 AM - 03:50 AM	54.1	72.1	52.9

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957055-1

Sample No. 2432591-14
Parameter Noise
Location รั้วโรงการด้านทิศตะวันออก (GPS 47P 0735700, 1409731) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 920834

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:50 AM - 03:55 AM	54.2	72.4	52.7
03:55 AM - 04:00 AM	53.0	70.0	52.1
04:00 AM - 04:05 AM	50.9	61.3	50.3
04:05 AM - 04:10 AM	50.7	53.6	50.4
04:10 AM - 04:15 AM	50.7	52.3	50.4
04:15 AM - 04:20 AM	58.3	82.8	50.5
04:20 AM - 04:25 AM	56.6	61.5	56.3
04:25 AM - 04:30 AM	60.6	84.7	55.9
04:30 AM - 04:35 AM	57.1	80.3	55.5
04:35 AM - 04:40 AM	55.8	57.0	55.4
04:40 AM - 04:45 AM	55.8	57.3	55.4
04:45 AM - 04:50 AM	55.6	57.0	55.3
04:50 AM - 04:55 AM	55.6	57.6	55.2
04:55 AM - 05:00 AM	58.1	68.1	55.5
05:00 AM - 05:05 AM	53.4	60.8	51.0
05:05 AM - 05:10 AM	51.1	52.4	50.9
05:10 AM - 05:15 AM	51.2	52.3	50.9
05:15 AM - 05:20 AM	51.3	53.5	51.0
05:20 AM - 05:25 AM	51.3	52.3	51.0
05:25 AM - 05:30 AM	51.4	54.7	51.0
05:30 AM - 05:35 AM	52.0	67.7	51.0
05:35 AM - 05:40 AM	53.1	59.1	52.2
05:40 AM - 05:45 AM	57.6	75.7	52.2
05:45 AM - 05:50 AM	59.4	83.1	52.4
05:50 AM - 05:55 AM	59.2	63.5	52.3
05:55 AM - 06:00 AM	51.8	55.2	51.4
06:00 AM - 07:00 AM	55.6	82.1	52.6
07:00 AM - 08:00 AM	57.3	80.8	54.7
08:00 AM - 09:00 AM	57.6	83.4	54.7
09:00 AM - 10:00 AM	58.5	84.2	55.6
10:00 AM - 11:00 AM	56.1	85.6	53.8
11:00 AM - 12:00 PM	53.6	74.6	52.5

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดได้จากอุปกรณ์การปฏิบัติงาน พ.ศ. 2567

Page 3 of 3

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957056-1

Sample No. 2432591-15
Parameter Noise
Location รั้วโรงการด้านทิศตะวันออก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.9	77.9	47.6
12:00 PM - 01:00 PM	51.0	78.0	47.8
01:00 PM - 02:00 PM	52.9	83.6	46.6
02:00 PM - 03:00 PM	50.2	75.2	47.2
03:00 PM - 04:00 PM	49.2	70.1	47.7
04:00 PM - 05:00 PM	51.1	72.6	47.8
05:00 PM - 06:00 PM	54.5	84.6	49.2
06:00 PM - 07:00 PM	53.8	79.4	48.8
07:00 PM - 08:00 PM	60.0	80.2	51.4
08:00 PM - 09:00 PM	53.9	74.8	51.8
09:00 PM - 10:00 PM	53.8	77.1	51.9
10:00 PM - 10:05 PM	52.4	57.7	51.4
10:05 PM - 10:10 PM	52.3	61.2	51.1
10:10 PM - 10:15 PM	52.5	63.8	51.1
10:15 PM - 10:20 PM	52.2	72.4	50.7
10:20 PM - 10:25 PM	52.0	57.8	50.3
10:25 PM - 10:30 PM	51.4	55.8	50.3
10:30 PM - 10:35 PM	51.8	55.6	50.8
10:35 PM - 10:40 PM	51.9	67.2	50.2
10:40 PM - 10:45 PM	51.4	55.1	50.1
10:45 PM - 10:50 PM	51.1	54.9	49.8
10:50 PM - 10:55 PM	52.3	67.3	50.3
10:55 PM - 11:00 PM	52.5	70.0	50.3
11:00 PM - 11:05 PM	51.4	56.3	50.1
11:05 PM - 11:10 PM	51.1	54.4	49.8
11:10 PM - 11:15 PM	50.7	54.7	49.3
11:15 PM - 11:20 PM	50.8	57.2	49.5
11:20 PM - 11:25 PM	51.6	56.4	50.4
11:25 PM - 11:30 PM	51.2	54.3	49.8
11:30 PM - 11:35 PM	49.9	54.4	49.2
11:35 PM - 11:40 PM	49.9	52.6	49.1
11:40 PM - 11:45 PM	50.1	52.3	49.4
11:45 PM - 11:50 PM	50.5	52.9	49.7
11:50 PM - 11:55 PM	50.8	53.7	50.0
11:55 PM - 12:00 AM	51.4	54.5	50.3
12:00 AM - 12:05 AM	51.1	53.8	49.9
12:05 AM - 12:10 AM	51.4	53.9	50.2
12:10 AM - 12:15 AM	51.1	54.1	49.9
12:15 AM - 12:20 AM	50.8	57.2	49.5
12:20 AM - 12:25 AM	50.7	55.2	49.1

Page 1 of 3

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5, T. Maenam Khu A, Phukdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957056-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-15
Parameter Noise
Location โรงงานอุตสาหกรรมปิโตรเคมี (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	51.1	55.0	49.6
12:30 AM - 12:35 AM	51.4	53.9	49.9
12:35 AM - 12:40 AM	51.7	54.5	50.3
12:40 AM - 12:45 AM	51.4	54.5	50.1
12:45 AM - 12:50 AM	57.8	80.2	50.2
12:50 AM - 12:55 AM	51.3	54.6	50.0
12:55 AM - 01:00 AM	51.3	55.2	50.0
01:00 AM - 01:05 AM	50.6	57.0	49.6
01:05 AM - 01:10 AM	50.9	57.3	49.6
01:10 AM - 01:15 AM	50.7	54.8	49.4
01:15 AM - 01:20 AM	50.1	53.4	48.9
01:20 AM - 01:25 AM	50.7	55.2	49.1
01:25 AM - 01:30 AM	51.1	55.0	49.6
01:30 AM - 01:35 AM	51.4	53.9	49.9
01:35 AM - 01:40 AM	51.7	54.5	50.3
01:40 AM - 01:45 AM	51.1	54.0	49.8
01:45 AM - 01:50 AM	50.9	54.5	49.5
01:50 AM - 01:55 AM	50.8	54.4	49.6
01:55 AM - 02:00 AM	50.5	64.8	49.2
02:00 AM - 02:05 AM	50.0	52.4	49.2
02:05 AM - 02:10 AM	50.2	54.4	49.3
02:10 AM - 02:15 AM	50.4	52.9	49.2
02:15 AM - 02:20 AM	50.8	57.6	49.4
02:20 AM - 02:25 AM	50.5	53.5	49.3
02:25 AM - 02:30 AM	50.2	54.4	49.3
02:30 AM - 02:35 AM	50.5	55.0	49.2
02:35 AM - 02:40 AM	50.6	53.9	49.4
02:40 AM - 02:45 AM	50.6	55.1	49.5
02:45 AM - 02:50 AM	50.3	52.9	49.1
02:50 AM - 02:55 AM	49.5	52.9	48.2
02:55 AM - 03:00 AM	50.3	54.5	48.7
03:00 AM - 03:05 AM	66.1	72.1	57.4
03:05 AM - 03:10 AM	58.1	67.5	51.9
03:10 AM - 03:15 AM	53.3	59.0	49.0
03:15 AM - 03:20 AM	54.6	71.1	49.0
03:20 AM - 03:25 AM	49.9	56.1	48.6
03:25 AM - 03:30 AM	49.8	53.5	48.7
03:30 AM - 03:35 AM	49.3	53.0	48.2
03:35 AM - 03:40 AM	49.9	53.6	48.5
03:40 AM - 03:45 AM	49.7	54.0	48.4

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957056-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. 2432591-15
Parameter Noise
Location โรงงานอุตสาหกรรมปิโตรเคมี (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 02 - 03, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.9	54.8	48.5
03:50 AM - 03:55 AM	49.3	54.2	48.2
03:55 AM - 04:00 AM	48.8	53.3	47.8
04:00 AM - 04:05 AM	49.1	52.8	48.0
04:05 AM - 04:10 AM	49.5	52.9	48.2
04:10 AM - 04:15 AM	50.3	54.5	48.7
04:15 AM - 04:20 AM	49.9	57.0	48.3
04:20 AM - 04:25 AM	49.4	54.4	48.2
04:25 AM - 04:30 AM	53.8	70.5	48.4
04:30 AM - 04:35 AM	49.5	57.8	48.3
04:35 AM - 04:40 AM	49.4	53.6	48.5
04:40 AM - 04:45 AM	50.0	55.6	48.8
04:45 AM - 04:50 AM	50.0	53.7	48.6
04:50 AM - 04:55 AM	50.5	61.9	48.8
04:55 AM - 05:00 AM	50.3	54.2	49.0
05:00 AM - 05:05 AM	50.2	53.4	48.9
05:05 AM - 05:10 AM	50.7	56.0	49.2
05:10 AM - 05:15 AM	53.8	70.8	49.5
05:15 AM - 05:20 AM	50.5	54.7	49.1
05:20 AM - 05:25 AM	50.8	59.8	49.0
05:25 AM - 05:30 AM	50.8	57.3	49.2
05:30 AM - 05:35 AM	51.1	59.9	49.6
05:35 AM - 05:40 AM	50.9	54.8	49.5
05:40 AM - 05:45 AM	50.6	56.0	49.0
05:45 AM - 05:50 AM	50.5	58.8	49.1
05:50 AM - 05:55 AM	50.3	54.0	49.1
05:55 AM - 06:00 AM	50.7	56.8	49.4
06:00 AM - 07:00 AM	52.0	76.5	50.1
07:00 AM - 08:00 AM	54.6	82.3	49.9
08:00 AM - 09:00 AM	53.2	77.4	48.6
09:00 AM - 10:00 AM	52.0	76.8	48.1
10:00 AM - 11:00 AM	51.3	75.9	47.8

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957057-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. 2432591-16
Parameter Noise
Location รั้วโรงกลั่นปิโตรเลียม (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.8	84.3	50.1
12:00 PM - 01:00 PM	54.8	78.5	50.3
01:00 PM - 02:00 PM	52.6	74.8	50.4
02:00 PM - 03:00 PM	52.0	71.4	50.1
03:00 PM - 04:00 PM	61.6	72.7	59.4
04:00 PM - 05:00 PM	56.6	79.9	53.4
05:00 PM - 06:00 PM	56.3	89.2	48.6
06:00 PM - 07:00 PM	60.4	84.7	55.5
07:00 PM - 08:00 PM	52.1	73.4	50.6
08:00 PM - 09:00 PM	52.4	73.4	50.7
09:00 PM - 10:00 PM	58.3	72.3	52.4
10:00 PM - 10:05 PM	49.6	52.5	48.9
10:05 PM - 10:10 PM	49.4	55.0	48.7
10:10 PM - 10:15 PM	49.8	54.5	49.0
10:15 PM - 10:20 PM	50.3	55.0	49.5
10:20 PM - 10:25 PM	51.9	64.7	49.8
10:25 PM - 10:30 PM	51.1	55.4	50.3
10:30 PM - 10:35 PM	51.4	65.5	50.1
10:35 PM - 10:40 PM	50.4	53.8	49.8
10:40 PM - 10:45 PM	50.5	56.2	49.8
10:45 PM - 10:50 PM	50.2	52.2	49.6
10:50 PM - 10:55 PM	50.5	53.9	49.9
10:55 PM - 11:00 PM	50.4	53.1	49.7
11:00 PM - 11:05 PM	50.0	52.4	49.3
11:05 PM - 11:10 PM	50.2	53.5	49.3
11:10 PM - 11:15 PM	52.3	74.2	49.7
11:15 PM - 11:20 PM	50.3	53.7	49.4
11:20 PM - 11:25 PM	50.5	53.5	49.6
11:25 PM - 11:30 PM	50.2	53.3	49.5
11:30 PM - 11:35 PM	49.8	52.4	48.9
11:35 PM - 11:40 PM	50.6	66.3	49.6
11:40 PM - 11:45 PM	50.4	56.8	49.4
11:45 PM - 11:50 PM	56.2	67.7	49.9
11:50 PM - 11:55 PM	68.9	73.1	57.2
11:55 PM - 12:00 AM	70.0	73.6	61.7
12:00 AM - 12:05 AM	61.1	70.1	50.2
12:05 AM - 12:10 AM	53.5	76.5	49.4
12:10 AM - 12:15 AM	52.8	76.0	49.1
12:15 AM - 12:20 AM	49.7	52.6	48.9
12:20 AM - 12:25 AM	50.1	54.3	49.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957057-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 2 of 3

Sample No. 2432591-16
Parameter Noise
Location รั้วโรงกลั่นปิโตรเลียม (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 03 - 04, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	50.1	52.8	49.1
12:30 AM - 12:35 AM	50.5	54.8	49.3
12:35 AM - 12:40 AM	50.8	54.9	49.4
12:40 AM - 12:45 AM	50.3	54.2	49.2
12:45 AM - 12:50 AM	50.2	58.6	49.0
12:50 AM - 12:55 AM	49.3	52.8	48.4
12:55 AM - 01:00 AM	49.2	52.2	48.4
01:00 AM - 01:05 AM	49.4	53.8	48.3
01:05 AM - 01:10 AM	49.5	54.1	48.5
01:10 AM - 01:15 AM	49.7	64.5	48.7
01:15 AM - 01:20 AM	50.2	61.4	49.2
01:20 AM - 01:25 AM	49.8	53.0	48.8
01:25 AM - 01:30 AM	50.0	54.2	48.8
01:30 AM - 01:35 AM	49.6	53.2	48.5
01:35 AM - 01:40 AM	49.6	54.8	48.5
01:40 AM - 01:45 AM	49.5	52.4	48.5
01:45 AM - 01:50 AM	49.6	52.5	48.8
01:50 AM - 01:55 AM	49.6	52.8	48.6
01:55 AM - 02:00 AM	49.8	58.0	48.8
02:00 AM - 02:05 AM	49.7	52.7	48.8
02:05 AM - 02:10 AM	49.7	53.6	48.8
02:10 AM - 02:15 AM	49.8	53.8	49.0
02:15 AM - 02:20 AM	50.1	53.4	49.1
02:20 AM - 02:25 AM	50.3	53.2	49.3
02:25 AM - 02:30 AM	50.0	54.8	48.9
02:30 AM - 02:35 AM	49.9	53.8	48.9
02:35 AM - 02:40 AM	49.9	52.8	49.0
02:40 AM - 02:45 AM	50.2	53.9	49.1
02:45 AM - 02:50 AM	49.8	53.2	48.9
02:50 AM - 02:55 AM	49.8	54.2	48.9
02:55 AM - 03:00 AM	49.6	53.5	48.8
03:00 AM - 03:05 AM	49.5	53.0	48.6
03:05 AM - 03:10 AM	49.5	52.1	48.6
03:10 AM - 03:15 AM	49.8	54.2	48.8
03:15 AM - 03:20 AM	49.8	52.9	48.9
03:20 AM - 03:25 AM	49.8	52.3	48.9
03:25 AM - 03:30 AM	49.9	54.1	48.7
03:30 AM - 03:35 AM	50.1	64.0	48.9
03:35 AM - 03:40 AM	49.9	53.6	48.8
03:40 AM - 03:45 AM	50.4	63.1	48.9

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957057-1

Sample No. : 2432591-16
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 03 - 04, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.8	55.0	48.6
03:50 AM - 03:55 AM	49.6	53.2	48.5
03:55 AM - 04:00 AM	49.7	57.0	48.5
04:00 AM - 04:05 AM	50.0	56.9	48.6
04:05 AM - 04:10 AM	49.5	52.9	48.5
04:10 AM - 04:15 AM	49.7	54.0	48.6
04:15 AM - 04:20 AM	49.9	63.2	48.6
04:20 AM - 04:25 AM	50.0	55.8	48.7
04:25 AM - 04:30 AM	50.3	60.9	48.9
04:30 AM - 04:35 AM	49.9	54.7	48.6
04:35 AM - 04:40 AM	49.7	53.6	48.5
04:40 AM - 04:45 AM	49.9	57.2	48.7
04:45 AM - 04:50 AM	50.1	54.3	48.8
04:50 AM - 04:55 AM	50.7	56.9	49.3
04:55 AM - 05:00 AM	50.5	55.2	49.2
05:00 AM - 05:05 AM	50.6	54.8	49.2
05:05 AM - 05:10 AM	51.2	54.4	50.0
05:10 AM - 05:15 AM	51.3	54.5	50.1
05:15 AM - 05:20 AM	51.6	55.6	50.3
05:20 AM - 05:25 AM	58.2	63.4	38.9
05:25 AM - 05:30 AM	58.5	61.8	52.4
05:30 AM - 05:35 AM	50.7	56.9	49.3
05:35 AM - 05:40 AM	52.8	68.3	51.6
05:40 AM - 05:45 AM	52.8	59.1	51.7
05:45 AM - 05:50 AM	52.9	61.1	51.6
05:50 AM - 05:55 AM	53.4	69.0	51.7
05:55 AM - 06:00 AM	54.3	72.2	51.5
06:00 AM - 07:00 AM	56.5	85.8	50.4
07:00 AM - 08:00 AM	52.3	79.1	48.3
08:00 AM - 09:00 AM	52.0	76.2	47.8
09:00 AM - 10:00 AM	50.9	75.8	48.0
10:00 AM - 11:00 AM	52.5	76.2	48.0

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Page 3 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957058-1

Sample No. : 2432591-17
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 04 - 05, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.1	82.2	47.4
12:00 PM - 01:00 PM	55.3	84.2	50.0
01:00 PM - 02:00 PM	53.9	79.9	50.4
02:00 PM - 03:00 PM	50.2	74.4	47.8
03:00 PM - 04:00 PM	51.3	74.0	48.0
04:00 PM - 05:00 PM	51.2	77.5	47.8
05:00 PM - 06:00 PM	56.9	81.5	52.0
06:00 PM - 07:00 PM	60.1	88.2	53.6
07:00 PM - 08:00 PM	59.4	81.1	56.4
08:00 PM - 09:00 PM	59.7	75.0	57.8
09:00 PM - 10:00 PM	61.7	80.7	56.1
10:00 PM - 10:05 PM	49.8	55.3	49.1
10:05 PM - 10:10 PM	49.7	52.7	49.0
10:10 PM - 10:15 PM	50.1	52.8	49.3
10:15 PM - 10:20 PM	50.5	55.3	49.3
10:20 PM - 10:25 PM	51.3	68.2	49.4
10:25 PM - 10:30 PM	51.8	68.0	49.8
10:30 PM - 10:35 PM	51.1	72.9	43.3
10:35 PM - 10:40 PM	50.1	54.6	49.1
10:40 PM - 10:45 PM	54.0	59.8	53.2
10:45 PM - 10:50 PM	57.1	66.7	53.3
10:50 PM - 10:55 PM	58.0	70.1	53.9
10:55 PM - 11:00 PM	66.7	80.7	57.7
11:00 PM - 11:05 PM	50.8	54.8	49.3
11:05 PM - 11:10 PM	50.1	58.8	49.1
11:10 PM - 11:15 PM	50.1	54.6	49.1
11:15 PM - 11:20 PM	50.2	55.0	49.2
11:20 PM - 11:25 PM	50.6	56.6	49.1
11:25 PM - 11:30 PM	50.3	55.5	48.8
11:30 PM - 11:35 PM	51.6	57.3	48.8
11:35 PM - 11:40 PM	51.4	57.6	49.0
11:40 PM - 11:45 PM	49.8	55.3	48.6
11:45 PM - 11:50 PM	51.5	57.6	48.6
11:50 PM - 11:55 PM	50.9	60.8	48.5
11:55 PM - 12:00 AM	49.9	55.6	48.9
12:00 AM - 12:05 AM	50.0	53.7	48.6
12:05 AM - 12:10 AM	49.0	51.7	48.3
12:10 AM - 12:15 AM	50.3	55.5	48.8
12:15 AM - 12:20 AM	51.6	57.3	48.8
12:20 AM - 12:25 AM	51.4	57.6	49.0

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawon

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957058-1

Sample No. 2432591-17
Parameter Noise
Location รั้วโรงกลั่นด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	65.5	68.1	63.6
12:30 AM - 12:35 AM	63.2	68.4	62.1
12:35 AM - 12:40 AM	62.9	69.6	61.9
12:40 AM - 12:45 AM	64.0	70.4	62.4
12:45 AM - 12:50 AM	51.3	56.5	50.2
12:50 AM - 12:55 AM	51.0	56.8	50.1
12:55 AM - 01:00 AM	51.2	54.7	50.4
01:00 AM - 01:05 AM	51.1	53.6	50.4
01:05 AM - 01:10 AM	51.0	54.7	50.3
01:10 AM - 01:15 AM	50.4	55.0	49.0
01:15 AM - 01:20 AM	50.9	56.3	49.3
01:20 AM - 01:25 AM	50.8	53.4	50.1
01:25 AM - 01:30 AM	50.9	56.0	50.0
01:30 AM - 01:35 AM	49.8	53.3	49.1
01:35 AM - 01:40 AM	49.9	53.9	49.0
01:40 AM - 01:45 AM	50.2	56.2	49.1
01:45 AM - 01:50 AM	50.2	54.1	49.3
01:50 AM - 01:55 AM	50.1	52.6	49.4
01:55 AM - 02:00 AM	50.2	53.3	49.4
02:00 AM - 02:05 AM	50.4	53.3	49.5
02:05 AM - 02:10 AM	51.0	62.9	49.6
02:10 AM - 02:15 AM	50.4	53.7	49.5
02:15 AM - 02:20 AM	50.4	53.9	49.3
02:20 AM - 02:25 AM	50.0	53.9	48.9
02:25 AM - 02:30 AM	49.7	56.9	48.8
02:30 AM - 02:35 AM	50.1	60.6	48.7
02:35 AM - 02:40 AM	49.9	53.4	48.9
02:40 AM - 02:45 AM	49.8	53.8	48.7
02:45 AM - 02:50 AM	49.7	54.6	48.5
02:50 AM - 02:55 AM	49.5	53.3	48.4
02:55 AM - 03:00 AM	49.7	52.9	48.7
03:00 AM - 03:05 AM	49.4	53.2	48.3
03:05 AM - 03:10 AM	49.5	56.0	48.6
03:10 AM - 03:15 AM	49.9	53.4	48.9
03:15 AM - 03:20 AM	49.8	53.8	48.7
03:20 AM - 03:25 AM	48.3	56.6	44.0
03:25 AM - 03:30 AM	49.1	52.7	48.1
03:30 AM - 03:35 AM	48.7	52.4	47.6
03:35 AM - 03:40 AM	60.6	63.4	59.9
03:40 AM - 03:45 AM	48.9	52.6	48.0

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw. A. Phraklaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957058-1

Sample No. 2432591-17
Parameter Noise
Location รั้วโรงกลั่นด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 04 - 05, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Page 3 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	49.1	52.7	48.3
03:50 AM - 03:55 AM	49.7	53.2	48.6
03:55 AM - 04:00 AM	49.5	53.1	48.5
04:00 AM - 04:05 AM	49.1	52.9	48.1
04:05 AM - 04:10 AM	49.5	54.3	48.2
04:10 AM - 04:15 AM	49.1	53.3	48.0
04:15 AM - 04:20 AM	49.4	54.3	48.3
04:20 AM - 04:25 AM	49.5	54.2	48.5
04:25 AM - 04:30 AM	50.5	54.4	48.9
04:30 AM - 04:35 AM	52.3	54.8	51.5
04:35 AM - 04:40 AM	50.7	54.1	49.1
04:40 AM - 04:45 AM	51.1	62.0	48.9
04:45 AM - 04:50 AM	49.8	57.9	48.4
04:50 AM - 04:55 AM	49.9	56.4	48.8
04:55 AM - 05:00 AM	49.6	57.8	48.5
05:00 AM - 05:05 AM	49.4	58.3	48.3
05:05 AM - 05:10 AM	49.7	56.0	48.6
05:10 AM - 05:15 AM	50.7	59.8	49.0
05:15 AM - 05:20 AM	50.6	60.7	49.0
05:20 AM - 05:25 AM	49.5	62.9	48.4
05:25 AM - 05:30 AM	49.8	58.9	48.6
05:30 AM - 05:35 AM	50.0	62.3	48.6
05:35 AM - 05:40 AM	50.6	58.7	48.9
05:40 AM - 05:45 AM	51.2	57.4	49.9
05:45 AM - 05:50 AM	49.4	58.3	48.3
05:50 AM - 05:55 AM	51.2	76.1	48.9
05:55 AM - 06:00 AM	60.8	63.1	60.1
06:00 AM - 07:00 AM	57.6	89.7	50.0
07:00 AM - 08:00 AM	54.1	79.9	49.1
08:00 AM - 09:00 AM	50.5	73.3	48.2
09:00 AM - 10:00 AM	50.8	72.8	48.2
10:00 AM - 11:00 AM	52.3	83.5	48.0

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Bonirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khw. A. Phraklaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957059-1

Sample No. 2432591-18
Parameter Noise
Location โรงงานโครงการด้านปิโตรเคมี (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Page 1 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	53.5	83.8	48.2
12:00 PM - 01:00 PM	60.6	81.4	56.0
01:00 PM - 02:00 PM	51.6	77.7	47.9
02:00 PM - 03:00 PM	55.2	80.9	51.1
03:00 PM - 04:00 PM	59.6	85.1	54.1
04:00 PM - 05:00 PM	52.2	73.5	48.5
05:00 PM - 06:00 PM	54.2	79.5	48.9
06:00 PM - 07:00 PM	63.1	78.1	51.0
07:00 PM - 08:00 PM	54.0	82.9	51.0
08:00 PM - 09:00 PM	57.6	73.8	52.4
09:00 PM - 10:00 PM	61.1	75.5	56.4
10:00 PM - 10:05 PM	51.6	54.2	50.6
10:05 PM - 10:10 PM	58.5	65.2	54.1
10:10 PM - 10:15 PM	50.5	52.9	49.6
10:15 PM - 10:20 PM	50.4	52.8	49.5
10:20 PM - 10:25 PM	51.0	55.5	49.6
10:25 PM - 10:30 PM	50.8	53.6	49.9
10:30 PM - 10:35 PM	51.0	54.2	50.2
10:35 PM - 10:40 PM	51.1	54.2	50.1
10:40 PM - 10:45 PM	51.5	54.3	50.2
10:45 PM - 10:50 PM	51.6	54.7	50.4
10:50 PM - 10:55 PM	51.9	53.6	51.3
10:55 PM - 11:00 PM	51.3	53.8	50.5
11:00 PM - 11:05 PM	51.1	53.5	50.3
11:05 PM - 11:10 PM	51.0	53.2	50.1
11:10 PM - 11:15 PM	53.9	74.0	50.4
11:15 PM - 11:20 PM	51.0	54.9	50.1
11:20 PM - 11:25 PM	50.9	53.2	50.1
11:25 PM - 11:30 PM	50.2	52.5	49.4
11:30 PM - 11:35 PM	50.8	54.6	50.0
11:35 PM - 11:40 PM	50.3	54.3	49.5
11:40 PM - 11:45 PM	50.1	53.7	49.2
11:45 PM - 11:50 PM	49.8	52.4	49.1
11:50 PM - 11:55 PM	50.1	54.9	49.1
11:55 PM - 12:00 AM	53.4	74.9	49.1
12:00 AM - 12:05 AM	50.5	58.8	49.4
12:05 AM - 12:10 AM	51.5	53.2	51.0
12:10 AM - 12:15 AM	51.4	53.2	50.9
12:15 AM - 12:20 AM	51.6	58.6	50.7
12:20 AM - 12:25 AM	50.3	53.0	49.1

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khui A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957059-1

Sample No. 2432591-18
Parameter Noise
Location โรงงานโครงการด้านปิโตรเคมี (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 05 - 06, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Page 2 of 3

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	51.1	54.6	49.9
12:30 AM - 12:35 AM	50.1	54.9	49.1
12:35 AM - 12:40 AM	50.1	54.9	49.1
12:40 AM - 12:45 AM	66.5	68.7	64.6
12:45 AM - 12:50 AM	59.7	65.4	48.5
12:50 AM - 12:55 AM	50.5	63.3	48.9
12:55 AM - 01:00 AM	50.1	56.3	49.2
01:00 AM - 01:05 AM	49.5	52.7	48.6
01:05 AM - 01:10 AM	50.0	54.4	49.1
01:10 AM - 01:15 AM	49.7	52.1	49.0
01:15 AM - 01:20 AM	49.6	52.3	48.8
01:20 AM - 01:25 AM	49.6	60.0	48.8
01:25 AM - 01:30 AM	52.5	72.2	49.3
01:30 AM - 01:35 AM	49.8	52.8	48.9
01:35 AM - 01:40 AM	50.5	62.9	48.7
01:40 AM - 01:45 AM	50.0	54.8	48.8
01:45 AM - 01:50 AM	50.0	54.7	48.6
01:50 AM - 01:55 AM	50.4	54.9	49.1
01:55 AM - 02:00 AM	50.2	54.9	49.0
02:00 AM - 02:05 AM	50.4	56.2	49.4
02:05 AM - 02:10 AM	50.0	58.1	48.8
02:10 AM - 02:15 AM	49.1	51.9	48.2
02:15 AM - 02:20 AM	50.0	53.1	49.1
02:20 AM - 02:25 AM	50.6	53.1	48.9
02:25 AM - 02:30 AM	51.4	54.5	50.8
02:30 AM - 02:35 AM	51.4	54.2	50.8
02:35 AM - 02:40 AM	51.4	56.6	50.7
02:40 AM - 02:45 AM	51.4	54.6	50.8
02:45 AM - 02:50 AM	51.6	54.1	50.9
02:50 AM - 02:55 AM	50.5	59.4	48.6
02:55 AM - 03:00 AM	52.0	57.5	48.4
03:00 AM - 03:05 AM	53.6	59.0	52.6
03:05 AM - 03:10 AM	53.1	54.9	52.5
03:10 AM - 03:15 AM	53.2	54.7	52.6
03:15 AM - 03:20 AM	53.7	61.3	52.9
03:20 AM - 03:25 AM	53.3	55.7	52.6
03:25 AM - 03:30 AM	53.4	55.3	52.8
03:30 AM - 03:35 AM	53.3	55.1	52.7
03:35 AM - 03:40 AM	53.2	56.8	52.6
03:40 AM - 03:45 AM	53.5	55.6	52.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5, T. Maenam Khui A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNERS.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957059-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 3 of 3

Sample No. : 2432591-18
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 05 - 06, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	53.3	57.1	52.6
03:50 AM - 03:55 AM	52.8	56.9	51.0
03:55 AM - 04:00 AM	52.7	54.8	51.8
04:00 AM - 04:05 AM	53.1	55.4	52.2
04:05 AM - 04:10 AM	53.5	55.5	52.8
04:10 AM - 04:15 AM	53.9	67.8	52.5
04:15 AM - 04:20 AM	52.7	55.1	51.9
04:20 AM - 04:25 AM	52.2	55.3	49.6
04:25 AM - 04:30 AM	52.0	58.4	49.5
04:30 AM - 04:35 AM	50.2	54.7	48.6
04:35 AM - 04:40 AM	50.9	58.4	49.6
04:40 AM - 04:45 AM	50.4	56.2	49.3
04:45 AM - 04:50 AM	50.5	54.6	49.2
04:50 AM - 04:55 AM	50.9	54.3	49.8
04:55 AM - 05:00 AM	50.6	55.6	49.0
05:00 AM - 05:05 AM	50.0	54.7	48.5
05:05 AM - 05:10 AM	49.8	53.8	48.4
05:10 AM - 05:15 AM	50.2	56.8	48.8
05:15 AM - 05:20 AM	50.2	54.3	48.9
05:20 AM - 05:25 AM	50.5	54.9	49.0
05:25 AM - 05:30 AM	51.1	57.9	49.1
05:30 AM - 05:35 AM	50.2	61.1	48.6
05:35 AM - 05:40 AM	50.5	62.0	49.0
05:40 AM - 05:45 AM	49.2	58.3	48.0
05:45 AM - 05:50 AM	51.1	56.0	50.0
05:50 AM - 05:55 AM	63.7	65.7	62.1
05:55 AM - 06:00 AM	62.6	64.7	59.7
06:00 AM - 07:00 AM	56.8	91.4	50.7
07:00 AM - 08:00 AM	54.0	77.7	49.8
08:00 AM - 09:00 AM	52.1	78.1	47.3
09:00 AM - 10:00 AM	49.5	72.4	47.1
10:00 AM - 11:00 AM	50.7	78.4	46.8

Reference Method :

1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่คิดจากการประกาศของกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957060-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Page 1 of 3

Sample No. : 2432591-19
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.3	84.3	53.0
12:00 PM - 01:00 PM	53.6	78.1	47.5
01:00 PM - 02:00 PM	53.6	82.6	48.3
02:00 PM - 03:00 PM	52.1	77.6	48.3
03:00 PM - 04:00 PM	61.1	77.6	55.5
04:00 PM - 05:00 PM	50.6	78.2	47.5
05:00 PM - 06:00 PM	53.3	77.5	49.7
06:00 PM - 07:00 PM	57.9	81.5	54.8
07:00 PM - 08:00 PM	57.8	74.2	54.0
08:00 PM - 09:00 PM	57.4	84.4	52.4
09:00 PM - 10:00 PM	57.4	67.2	54.4
10:00 PM - 10:05 PM	50.1	54.0	49.1
10:05 PM - 10:10 PM	49.8	55.2	49.0
10:10 PM - 10:15 PM	49.7	54.1	48.9
10:15 PM - 10:20 PM	49.3	58.0	48.3
10:20 PM - 10:25 PM	49.7	55.6	48.7
10:25 PM - 10:30 PM	51.1	56.4	49.6
10:30 PM - 10:35 PM	50.2	54.4	49.5
10:35 PM - 10:40 PM	50.8	70.5	49.6
10:40 PM - 10:45 PM	50.7	53.6	49.7
10:45 PM - 10:50 PM	51.4	57.9	50.3
10:50 PM - 10:55 PM	51.4	54.1	50.7
10:55 PM - 11:00 PM	51.4	53.9	50.5
11:00 PM - 11:05 PM	51.5	54.7	50.6
11:05 PM - 11:10 PM	49.4	51.4	48.7
11:10 PM - 11:15 PM	49.2	57.3	48.5
11:15 PM - 11:20 PM	66.8	68.9	63.8
11:20 PM - 11:25 PM	66.8	68.9	63.8
11:25 PM - 11:30 PM	65.6	73.3	53.2
11:30 PM - 11:35 PM	51.9	54.8	51.1
11:35 PM - 11:40 PM	51.9	57.4	51.2
11:40 PM - 11:45 PM	51.7	57.4	50.9
11:45 PM - 11:50 PM	53.1	72.3	51.0
11:50 PM - 11:55 PM	51.9	55.3	51.1
11:55 PM - 12:00 AM	54.5	57.9	51.3
12:00 AM - 12:05 AM	51.9	55.3	50.5
12:05 AM - 12:10 AM	52.9	56.4	50.8
12:10 AM - 12:15 AM	51.7	55.0	50.4
12:15 AM - 12:20 AM	51.2	54.6	50.0
12:20 AM - 12:25 AM	51.0	54.7	50.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957060-1

Page 2 of 3

Sample No. : 2432591-19
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	51.0	54.2	50.2
12:30 AM - 12:35 AM	52.0	56.7	50.3
12:35 AM - 12:40 AM	53.6	57.0	51.7
12:40 AM - 12:45 AM	54.0	58.5	52.2
12:45 AM - 12:50 AM	53.7	57.5	51.4
12:50 AM - 12:55 AM	51.1	57.4	50.2
12:55 AM - 01:00 AM	51.6	55.6	50.3
01:00 AM - 01:05 AM	51.5	55.5	50.3
01:05 AM - 01:10 AM	52.7	56.3	50.4
01:10 AM - 01:15 AM	51.5	56.4	50.4
01:15 AM - 01:20 AM	51.6	56.9	50.5
01:20 AM - 01:25 AM	51.2	56.0	50.4
01:25 AM - 01:30 AM	52.1	57.0	50.4
01:30 AM - 01:35 AM	51.3	56.0	50.1
01:35 AM - 01:40 AM	51.0	56.6	49.9
01:40 AM - 01:45 AM	51.2	58.4	49.7
01:45 AM - 01:50 AM	51.1	54.9	50.0
01:50 AM - 01:55 AM	51.5	55.8	50.4
01:55 AM - 02:00 AM	53.1	63.8	50.6
02:00 AM - 02:05 AM	50.4	53.4	49.5
02:05 AM - 02:10 AM	62.9	67.4	51.5
02:10 AM - 02:15 AM	66.8	68.1	66.1
02:15 AM - 02:20 AM	51.5	55.7	50.4
02:20 AM - 02:25 AM	51.8	63.6	50.6
02:25 AM - 02:30 AM	51.9	56.2	50.5
02:30 AM - 02:35 AM	51.1	55.9	49.9
02:35 AM - 02:40 AM	53.2	57.2	50.3
02:40 AM - 02:45 AM	52.3	57.8	50.2
02:45 AM - 02:50 AM	51.7	56.8	49.9
02:50 AM - 02:55 AM	53.3	56.9	50.5
02:55 AM - 03:00 AM	52.7	56.7	50.1
03:00 AM - 03:05 AM	51.3	55.9	50.2
03:05 AM - 03:10 AM	51.7	54.5	50.8
03:10 AM - 03:15 AM	51.5	56.7	50.1
03:15 AM - 03:20 AM	51.6	63.1	50.3
03:20 AM - 03:25 AM	51.0	55.8	50.1
03:25 AM - 03:30 AM	51.2	55.6	50.2
03:30 AM - 03:35 AM	50.6	55.3	49.5
03:35 AM - 03:40 AM	49.9	54.2	49.1
03:40 AM - 03:45 AM	50.5	52.8	49.7

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957060-1

Page 3 of 3

Sample No. : 2432591-19
Parameter : Noise
Location : บริเวณโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date : Apr 06 - 07, 2024
Measurement by : Chatchai Sukpia
Sound Level Meter : 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	51.0	53.6	50.1
03:50 AM - 03:55 AM	52.4	54.5	50.3
03:55 AM - 04:00 AM	54.4	78.8	51.5
04:00 AM - 04:05 AM	52.2	55.1	51.6
04:05 AM - 04:10 AM	52.4	56.0	51.5
04:10 AM - 04:15 AM	51.8	56.0	50.2
04:15 AM - 04:20 AM	50.8	53.9	49.6
04:20 AM - 04:25 AM	52.2	56.0	51.5
04:25 AM - 04:30 AM	52.7	57.8	51.4
04:30 AM - 04:35 AM	52.1	57.5	49.9
04:35 AM - 04:40 AM	52.1	58.0	49.9
04:40 AM - 04:45 AM	52.8	71.3	50.6
04:45 AM - 04:50 AM	51.6	58.5	50.3
04:50 AM - 04:55 AM	50.5	57.6	49.8
04:55 AM - 05:00 AM	51.5	57.1	49.9
05:00 AM - 05:05 AM	53.1	65.0	51.8
05:05 AM - 05:10 AM	52.5	56.0	51.5
05:10 AM - 05:15 AM	52.3	57.8	51.5
05:15 AM - 05:20 AM	51.6	55.4	50.0
05:20 AM - 05:25 AM	51.2	63.8	50.0
05:25 AM - 05:30 AM	51.4	63.8	49.5
05:30 AM - 05:35 AM	50.9	56.1	49.8
05:35 AM - 05:40 AM	50.6	55.6	49.6
05:40 AM - 05:45 AM	66.6	71.1	56.7
05:45 AM - 05:50 AM	64.9	67.0	64.0
05:50 AM - 05:55 AM	54.5	78.0	50.1
05:55 AM - 06:00 AM	51.0	58.9	49.9
06:00 AM - 07:00 AM	56.7	89.4	50.1
07:00 AM - 08:00 AM	53.6	83.9	48.3
08:00 AM - 09:00 AM	50.6	74.3	47.6
09:00 AM - 10:00 AM	51.2	78.4	47.8
10:00 AM - 11:00 AM	53.4	83.9	50.3

Reference Method :

- ISO 1996-1
- ประเทศไทยโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่วัดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand / PHONE +66 0 3304 8555 / FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957061-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432591-20
Parameter Noise
Location ชุมรั้วโครงการถ่านหินห้วยหลวง (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	51.3	82.4	47.7
12:00 PM - 01:00 PM	52.2	80.6	47.7
01:00 PM - 02:00 PM	54.8	78.9	49.0
02:00 PM - 03:00 PM	52.3	79.5	46.7
03:00 PM - 04:00 PM	53.0	76.5	49.5
04:00 PM - 05:00 PM	54.5	80.3	51.3
05:00 PM - 06:00 PM	54.7	78.5	51.9
06:00 PM - 07:00 PM	51.9	77.3	48.1
07:00 PM - 08:00 PM	59.9	81.4	57.9
08:00 PM - 09:00 PM	56.3	76.9	53.6
09:00 PM - 10:00 PM	55.7	75.1	52.5
10:00 PM - 10:05 PM	51.1	56.3	50.4
10:05 PM - 10:10 PM	51.3	54.1	50.7
10:10 PM - 10:15 PM	51.6	60.8	50.9
10:15 PM - 10:20 PM	51.6	57.4	51.1
10:20 PM - 10:25 PM	51.7	54.7	51.1
10:25 PM - 10:30 PM	51.8	55.6	50.9
10:30 PM - 10:35 PM	52.3	56.3	51.1
10:35 PM - 10:40 PM	53.7	57.0	51.7
10:40 PM - 10:45 PM	53.6	57.6	51.9
10:45 PM - 10:50 PM	52.1	56.2	50.4
10:50 PM - 10:55 PM	51.2	58.0	50.4
10:55 PM - 11:00 PM	51.3	58.0	50.6
11:00 PM - 11:05 PM	50.8	53.0	50.3
11:05 PM - 11:10 PM	51.3	53.3	50.7
11:10 PM - 11:15 PM	52.3	67.7	51.0
11:15 PM - 11:20 PM	51.1	53.4	50.4
11:20 PM - 11:25 PM	51.3	57.9	50.6
11:25 PM - 11:30 PM	51.2	57.3	50.2
11:30 PM - 11:35 PM	51.4	54.6	51.0
11:35 PM - 11:40 PM	51.4	55.1	51.0
11:40 PM - 11:45 PM	52.0	55.4	51.1
11:45 PM - 11:50 PM	53.3	64.2	42.7
11:50 PM - 11:55 PM	53.7	57.0	51.7
11:55 PM - 12:00 AM	64.5	66.0	63.4
12:00 AM - 12:05 AM	62.8	65.4	58.3
12:05 AM - 12:10 AM	50.7	54.4	49.9
12:10 AM - 12:15 AM	51.1	55.1	50.4
12:15 AM - 12:20 AM	50.6	54.4	49.7
12:20 AM - 12:25 AM	50.1	54.7	49.1

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957061-1

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Sample No. 2432591-20
Parameter Noise
Location ชุมรั้วโครงการถ่านหินห้วยหลวง (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	53.2	56.0	52.1
12:30 AM - 12:35 AM	51.5	55.4	50.2
12:35 AM - 12:40 AM	50.8	55.2	49.8
12:40 AM - 12:45 AM	50.2	57.4	49.6
12:45 AM - 12:50 AM	50.1	55.0	49.4
12:50 AM - 12:55 AM	50.2	52.7	49.5
12:55 AM - 01:00 AM	49.9	55.0	49.0
01:00 AM - 01:05 AM	50.0	54.9	48.9
01:05 AM - 01:10 AM	49.4	53.1	48.4
01:10 AM - 01:15 AM	49.2	53.6	48.1
01:15 AM - 01:20 AM	49.5	58.5	48.3
01:20 AM - 01:25 AM	51.4	67.9	49.0
01:25 AM - 01:30 AM	50.7	55.3	49.4
01:30 AM - 01:35 AM	51.5	53.7	50.7
01:35 AM - 01:40 AM	51.2	53.8	50.5
01:40 AM - 01:45 AM	51.2	53.6	50.5
01:45 AM - 01:50 AM	51.9	55.2	51.1
01:50 AM - 01:55 AM	51.2	53.9	50.5
01:55 AM - 02:00 AM	51.4	53.9	50.5
02:00 AM - 02:05 AM	51.6	57.4	50.8
02:05 AM - 02:10 AM	51.2	54.6	50.4
02:10 AM - 02:15 AM	51.7	58.4	50.9
02:15 AM - 02:20 AM	51.6	54.3	50.6
02:20 AM - 02:25 AM	51.4	65.1	50.2
02:25 AM - 02:30 AM	51.2	53.7	50.4
02:30 AM - 02:35 AM	57.1	80.3	48.2
02:35 AM - 02:40 AM	57.4	82.7	47.3
02:40 AM - 02:45 AM	53.2	60.4	48.7
02:45 AM - 02:50 AM	58.1	81.3	49.2
02:50 AM - 02:55 AM	62.7	71.8	59.7
02:55 AM - 03:00 AM	62.9	74.8	49.0
03:00 AM - 03:05 AM	62.3	71.7	49.7
03:05 AM - 03:10 AM	48.9	55.3	48.0
03:10 AM - 03:15 AM	49.3	59.9	48.2
03:15 AM - 03:20 AM	48.9	61.9	47.8
03:20 AM - 03:25 AM	49.2	53.1	47.9
03:25 AM - 03:30 AM	49.8	56.6	48.4
03:30 AM - 03:35 AM	49.4	53.2	48.1
03:35 AM - 03:40 AM	49.1	51.9	48.0
03:40 AM - 03:45 AM	49.1	52.8	48.0

Page 2 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957061-1

Sample No. 2432591-20
Parameter Noise
Location โรงงานอุตสาหกรรม (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 07 - 08, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	48.8	51.7	47.9
03:50 AM - 03:55 AM	49.5	52.5	48.4
03:55 AM - 04:00 AM	50.1	52.6	48.8
04:00 AM - 04:05 AM	48.6	52.3	47.7
04:05 AM - 04:10 AM	50.0	53.6	48.3
04:10 AM - 04:15 AM	49.6	52.8	48.4
04:15 AM - 04:20 AM	49.3	53.2	48.2
04:20 AM - 04:25 AM	51.5	54.9	49.0
04:25 AM - 04:30 AM	50.1	53.8	48.2
04:30 AM - 04:35 AM	50.0	54.6	48.8
04:35 AM - 04:40 AM	49.0	54.6	47.9
04:40 AM - 04:45 AM	49.6	57.8	48.4
04:45 AM - 04:50 AM	50.4	63.7	48.4
04:50 AM - 04:55 AM	49.5	54.3	48.1
04:55 AM - 05:00 AM	49.9	56.3	48.6
05:00 AM - 05:05 AM	50.8	53.8	49.5
05:05 AM - 05:10 AM	50.5	54.3	49.5
05:10 AM - 05:15 AM	50.4	55.5	49.2
05:15 AM - 05:20 AM	49.5	53.4	48.4
05:20 AM - 05:25 AM	50.4	55.2	49.2
05:25 AM - 05:30 AM	51.1	57.2	49.6
05:30 AM - 05:35 AM	51.3	55.9	49.6
05:35 AM - 05:40 AM	51.0	56.7	49.6
05:40 AM - 05:45 AM	51.6	56.4	49.5
05:45 AM - 05:50 AM	51.8	56.7	49.8
05:50 AM - 05:55 AM	51.4	56.4	49.0
05:55 AM - 06:00 AM	52.5	63.2	50.2
06:00 AM - 07:00 AM	51.2	62.6	49.2
07:00 AM - 08:00 AM	54.5	81.2	50.3
08:00 AM - 09:00 AM	53.2	76.0	49.7
09:00 AM - 10:00 AM	51.3	70.1	48.8
10:00 AM - 11:00 AM	50.4	71.2	47.9

Reference Method :
1. ISO 1996-1
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงการรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

Page 3 of 3



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957062-1

Sample No. 2432591-21
Parameter Noise
Location โรงงานอุตสาหกรรม (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.2	70.5	48.0
12:00 PM - 01:00 PM	49.7	73.5	46.3
01:00 PM - 02:00 PM	52.2	78.7	48.5
02:00 PM - 03:00 PM	53.3	78.6	48.4
03:00 PM - 04:00 PM	54.1	77.8	48.3
04:00 PM - 05:00 PM	52.4	81.0	48.0
05:00 PM - 06:00 PM	53.5	79.5	48.2
06:00 PM - 07:00 PM	54.5	81.8	50.0
07:00 PM - 08:00 PM	53.4	73.3	51.6
08:00 PM - 09:00 PM	52.9	70.7	50.5
09:00 PM - 10:00 PM	50.5	68.4	49.4
10:00 PM - 10:05 PM	50.0	53.9	49.1
10:05 PM - 10:10 PM	49.6	53.2	48.9
10:10 PM - 10:15 PM	52.9	70.1	48.9
10:15 PM - 10:20 PM	50.7	53.4	49.3
10:20 PM - 10:25 PM	49.8	64.1	48.8
10:25 PM - 10:30 PM	49.8	53.4	48.9
10:30 PM - 10:35 PM	49.6	57.1	48.8
10:35 PM - 10:40 PM	49.6	51.8	48.6
10:40 PM - 10:45 PM	53.5	58.3	50.3
10:45 PM - 10:50 PM	50.9	53.5	50.3
10:50 PM - 10:55 PM	50.9	53.1	50.3
10:55 PM - 11:00 PM	50.4	53.1	49.8
11:00 PM - 11:05 PM	50.7	55.9	50.0
11:05 PM - 11:10 PM	50.6	57.4	50.0
11:10 PM - 11:15 PM	50.9	61.6	50.2
11:15 PM - 11:20 PM	51.1	57.4	50.3
11:20 PM - 11:25 PM	51.1	53.8	50.5
11:25 PM - 11:30 PM	52.7	70.3	50.4
11:30 PM - 11:35 PM	51.1	53.7	50.5
11:35 PM - 11:40 PM	51.2	53.5	50.6
11:40 PM - 11:45 PM	51.4	53.6	50.8
11:45 PM - 11:50 PM	51.5	56.6	51.0
11:50 PM - 11:55 PM	51.4	56.4	50.9
11:55 PM - 12:00 AM	51.2	58.7	50.6
12:00 AM - 12:05 AM	51.4	53.5	50.9
12:05 AM - 12:10 AM	51.9	56.7	51.5
12:10 AM - 12:15 AM	51.7	55.1	51.0
12:15 AM - 12:20 AM	51.2	55.8	50.8
12:20 AM - 12:25 AM	51.1	54.5	50.5

Page 1 of 3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand : PHONE +66 0 3304 8555 : FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957062-1

Sample No. 2432591-21
Parameter Noise
Location รั้วโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:25 AM - 12:30 AM	50.8	53.9	50.2
12:30 AM - 12:35 AM	50.7	53.9	50.1
12:35 AM - 12:40 AM	50.7	53.8	50.1
12:40 AM - 12:45 AM	50.8	53.9	50.2
12:45 AM - 12:50 AM	51.0	53.8	50.4
12:50 AM - 12:55 AM	51.4	53.4	50.8
12:55 AM - 01:00 AM	51.7	54.2	50.9
01:00 AM - 01:05 AM	52.1	54.2	51.5
01:05 AM - 01:10 AM	51.9	54.1	51.3
01:10 AM - 01:15 AM	50.2	53.3	49.6
01:15 AM - 01:20 AM	50.1	53.3	49.5
01:20 AM - 01:25 AM	50.1	53.2	49.5
01:25 AM - 01:30 AM	51.8	65.0	50.6
01:30 AM - 01:35 AM	51.2	53.9	50.6
01:35 AM - 01:40 AM	51.5	57.3	50.7
01:40 AM - 01:45 AM	52.2	54.8	51.3
01:45 AM - 01:50 AM	51.5	54.4	50.9
01:50 AM - 01:55 AM	51.7	57.3	50.6
01:55 AM - 02:00 AM	52.8	56.0	51.2
02:00 AM - 02:05 AM	53.7	55.6	53.0
02:05 AM - 02:10 AM	55.0	73.8	50.5
02:10 AM - 02:15 AM	50.9	54.9	50.0
02:15 AM - 02:20 AM	50.5	54.2	49.5
02:20 AM - 02:25 AM	50.4	54.3	49.4
02:25 AM - 02:30 AM	50.3	54.1	49.6
02:30 AM - 02:35 AM	50.5	53.5	49.8
02:35 AM - 02:40 AM	50.4	53.3	49.8
02:40 AM - 02:45 AM	51.2	59.5	49.8
02:45 AM - 02:50 AM	50.0	53.3	49.4
02:50 AM - 02:55 AM	50.2	53.3	49.5
02:55 AM - 03:00 AM	50.5	54.4	49.6
03:00 AM - 03:05 AM	50.8	60.7	49.6
03:05 AM - 03:10 AM	51.2	54.2	50.0
03:10 AM - 03:15 AM	51.7	54.5	51.0
03:15 AM - 03:20 AM	51.8	58.5	51.0
03:20 AM - 03:25 AM	51.8	54.3	51.0
03:25 AM - 03:30 AM	51.5	54.0	50.6
03:30 AM - 03:35 AM	50.5	53.4	49.7
03:35 AM - 03:40 AM	50.8	54.1	49.7
03:40 AM - 03:45 AM	51.8	68.6	49.7

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/19 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150

P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2432591
Date Received : Apr 10, 2024
Date Reported : Apr 11, 2024
Report No. : 2957062-1

Sample No. 2432591-21
Parameter Noise
Location รั้วโครงการด้านทิศตะวันตก (GPS 47P 0735033, 1409686) (Shut down)
Measurement Date Apr 08 - 09, 2024
Measurement by Chatchai Sukpia
Sound Level Meter 00764919

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:45 AM - 03:50 AM	51.8	55.9	49.6
03:50 AM - 03:55 AM	49.4	52.5	48.7
03:55 AM - 04:00 AM	50.4	53.6	49.4
04:00 AM - 04:05 AM	50.1	55.8	48.6
04:05 AM - 04:10 AM	49.3	55.6	48.5
04:10 AM - 04:15 AM	49.6	63.6	48.8
04:15 AM - 04:20 AM	49.9	52.9	49.0
04:20 AM - 04:25 AM	50.1	53.7	49.0
04:25 AM - 04:30 AM	50.5	53.3	49.5
04:30 AM - 04:35 AM	51.9	57.8	50.3
04:35 AM - 04:40 AM	52.7	57.4	50.9
04:40 AM - 04:45 AM	52.1	64.5	50.7
04:45 AM - 04:50 AM	52.3	60.2	50.5
04:50 AM - 04:55 AM	52.3	60.9	49.9
04:55 AM - 05:00 AM	51.4	58.6	49.3
05:00 AM - 05:05 AM	52.0	56.6	50.0
05:05 AM - 05:10 AM	52.2	57.6	50.3
05:10 AM - 05:15 AM	52.7	56.9	50.7
05:15 AM - 05:20 AM	51.8	60.5	50.3
05:20 AM - 05:25 AM	52.3	58.8	50.5
05:25 AM - 05:30 AM	52.1	56.4	50.2
05:30 AM - 05:35 AM	51.6	56.4	49.6
05:35 AM - 05:40 AM	52.4	67.7	49.8
05:40 AM - 05:45 AM	50.8	62.2	49.5
05:45 AM - 05:50 AM	50.7	66.4	49.3
05:50 AM - 05:55 AM	51.0	67.2	49.0
05:55 AM - 06:00 AM	59.7	66.5	50.7
06:00 AM - 07:00 AM	53.5	77.8	50.2
07:00 AM - 08:00 AM	55.2	83.6	49.2
08:00 AM - 09:00 AM	51.9	75.3	48.4
09:00 AM - 10:00 AM	49.9	71.9	47.8
10:00 AM - 11:00 AM	54.3	83.0	49.5

Reference Method :

- ISO 1996-1
- ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2567

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Wilawan Borirak

Wilawan Borirak
Manager

ADDRESS 616/19 Moo 5 T. Maenam Khu A. Phrakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ภาคผนวก ข-7

ใบรับรองผลการตรวจวัดคุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Sample Number 2411127-1
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Tank Farm
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into two 10-L air sampling bags
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Page 1 of 19

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	10:36 AM - 12:36 PM	ppm	-	1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok
Total Hydrocarbon as Propane *	10:36 AM - 12:36 PM	ppm	-	0.33	2.14	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497517 EMAIL

S:\Reports\Air_Working_2GL.rpt (2:21PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Sample Number 2411127-2
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Deethanizer
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Page 2 of 19

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	10:06 AM - 12:06 PM	ppm	-	1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497517 EMAIL

S:\Reports\Air_Working_2GL.rpt (2:21PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 3 of 19

Sample Number 2411127-3
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Deethrizer - Side Cracker
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	09:17 AM - 11:17 AM	ppm	—	1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7407-SU (PAB)

S:\Reports\AK_20240220_021196



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 4 of 19

Sample Number 2411127-4
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Depropanizer
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Propylene *	09:55 AM - 11:55 AM	ppm	—	1.0	<1.0	No Standard	500	Based on ASTM, D 2712-91	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7407-SU (PAB)

S:\Reports\AK_20240220_021196



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 5 of 19

Sample Number 2411127-5
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Spent Caustic Treatment Unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Hydrogen Sulfide *	09:28 AM - 11:28 AM	ppm	—	0.04	<0.04	20(C)	1	NIOSH (1994), P&CAM126	Rayong

Guideline :
Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2897-517 (THAI)

S:\Reports\Air_Bangkok_JSL.net (2/21/24)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 6 of 19

Sample Number 2411127-6
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Preparation/ Pretreatment Unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Dimethyl Disulfide *	11:48 AM - 01:48 PM	ppm	—	0.05	<0.05	No Standard	0.5	Based on OSHA, PV2210	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2897-517 (THAI)

S:\Reports\Air_Bangkok_JSL.net (2/21/24)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 7 of 19

Sample Number 2411127-7
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Chilling Unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Hydrocarbon as Propane *	10:01 AM - 12:01 PM	ppm	-	0.33	1.93	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline :
Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

5:00pm/19A2E

5:00pm/19A2E



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 8 of 19

Sample Number 2411127-8
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Naptha Cracking Heater (Recycle Cracking Heater)
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Hydrocarbon as Propane *	11:52 AM - 01:52 PM	ppm	-	0.33	1.94	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline :
Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

5:00pm/19A2E

5:00pm/19A2E



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 9 of 19

Sample Number 2411127-9
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Truck Loading
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
m-Xylene *	11:16 AM - 01:16 PM	ppm	—	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
o-Xylene *	11:16 AM - 01:16 PM	ppm	—	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
p-Xylene *	11:16 AM - 01:16 PM	ppm	—	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
Total Hydrocarbon as Propane *	11:16 AM - 01:16 PM	ppm	—	0.33	1.49	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong
Total Xylene	11:16 AM - 01:16 PM	ppm	—	0.05	<0.05	100	20	Based on NIOSH (1994), 1501	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
***Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7499-SU-19M2

09Reports_Air_Warning_2024.rpt (2/20PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 10 of 19

Sample Number 2411127-10
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Benzene Tower Unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Benzene	09:19 AM - 11:19 AM	ppm	—	0.06	<0.06	1	0.5	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
***Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7499-SU-19M2

09Reports_Air_Warning_2024.rpt (2/20PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009
Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 11 of 19

Sample Number 2411127-11
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Benzene Storage Tank
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Benzene	10:30 AM - 12:30 PM	ppm	-	0.06	<0.06	1	0.5	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

- Guideline :** 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7/60/53/PMH

S:\Report\ALS_Working_2024\pt (2)1197



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 12 of 19

Sample Number 2411127-12
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Toluene Tower Unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Toluene	09:21 AM - 11:21 AM	ppm	-	0.05	<0.05	200	20	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

- Guideline :** 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO. LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2/60/53/PMH

S:\Report\ALS_Working_2024\pt (2)1197



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 13 of 19

Sample Number 2411127-13
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Toluene Storage Tank
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Toluene	10:32 AM - 12:32 PM	ppm		0.05	<0.05	200	20	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

REV 5/1/2005

S:\Reports_Az_Working_JG_opt (2.21PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 14 of 19

Sample Number 2411127-14
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Styrene Extraction unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Styrene *	09:25 AM - 11:25 AM	ppm		0.05	<0.05	100	10	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2897-5/1/2005

S:\Reports_Az_Working_JG_opt (2.21PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 15 of 19

Sample Number 2411127-15
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Styrene Storage unit
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Styrene *	11:34 AM - 01:34 PM	ppm	-	0.05	<0.05	100	10	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

- Guideline :** 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

746751/19AB

S:\Reports\Air_Working_JGL.pdf (2.21996)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 16 of 19

Sample Number 2411127-16
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Low Pressure Flare
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylbenzene *	11:42 AM - 01:42 PM	ppm	-	0.05	<0.05	100	20	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :

- Guideline :** 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

746751/19AB

S:\Reports\Air_Working_JGL.pdf (2.21996)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 17 of 19

Sample Number 2411127-17
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Dissolved Floatation Tank
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylbenzene *	11:59 AM - 01:59 PM	ppm	—	0.05	<0.05	100	20	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline :
Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

7497-51 (ENG)

S:\Reports\Air_Working_256.rpt (2/21/24)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 18 of 19

Sample Number 2411127-18
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Debutanizer
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
1,3-Butadiene *	09:57 AM - 11:57 AM	ppm	—	0.05	<0.05	1	2	NIOSH (1994), 1024	Bangkok

Guideline :
Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNERS

7497-51 (ENG)

S:\Reports\Air_Working_256.rpt (2/21/24)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2411127
Date Received : Feb 01, 2024
Date Reported : Feb 14, 2024
Report Number : 2897196-1

Page 19 of 19

Sample Number 2411127-19
Sampled Date Feb 01, 2024
Sample Description Air Quality
Location Raw C4 Tank
Date Analysis Commenced Feb 02, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 760 mmHg
Atmospheric Temperature 29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
1,3 Butadiene *	10:11 AM - 12:11 PM	ppm	=	0.05	<0.05	1	2	NIOSH (1994), 1024	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2023)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

788731/ENG

S:\Access_Air_Working_ZG_rpt (2.2019)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 1 of 19

Sample Number 2435165-1
Sampled Date May 02, 2024
Sample Description Air Quality
Location Tank Farm
Date Analysis Commenced May 03, 2024
Condition of Sample Drawn into two 10-L air sampling bags
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	10:00 AM - 12:00 PM	ppm		1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok
Total Hydrocarbon as Propane *	10:00 AM - 12:00 PM	ppm		0.33	2.78	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkharn

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

249731/ENG

S:\Access_Air_Working_ZG_rpt (3.2019)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-2
Sampled Date May 02, 2024
Sample Description Air Quality
Location Deethanizer
Date Analysis Commenced May 06, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	10.00 AM - 12.00 PM	ppm	—	1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

PMM-S1 (ENGL)

S:\Reports\Air_Working_2024\pt (3-2024)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-3
Sampled Date May 02, 2024
Sample Description Air Quality
Location Deethanizer - Side Cracker
Date Analysis Commenced May 06, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylene *	10.00 AM - 12.00 PM	ppm	—	1.0	<1.0	No Standard	200	Based on ASTM, D 2712-18	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

PMM-S1 (ENGL)

S:\Reports\Air_Working_2024\pt (3-2024)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 4 of 19

Sample Number 2435165-4
Sampled Date May 02, 2024
Sample Description Air Quality
Location Depropanizer
Date Analysis Commenced May 06, 2024
Condition of Sample Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Propylene *	10:10 AM - 12:10 PM	ppm	—	1.0	<1.0	No Standard	500	Based on ASTM, D 2712-91	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7/2023-5/1/2024

S:\Reports\AL_Thailand\AL-009



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 5 of 19

Sample Number 2435165-5
Sampled Date May 02, 2024
Sample Description Air Quality
Location Spent Caustic Treatment Unit
Date Analysis Commenced May 03, 2024
Condition of Sample Drawn into one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Hydrogen Sulfide *	10:10 AM - 12:10 PM	ppm	—	0.04	<0.04	20(C)	1	NIOSH (1994), P&CAM126	Rayong

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7/2023-5/1/2024

S:\Reports\AL_Thailand\AL-009



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-6
Sampled Date May 02, 2024
Sample Description Air Quality
Location Preparation/ Pretreatment Unit
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one sorbent tube, refrigerated

Page 6 of 19

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Dimethyl Disulfide : *	10:10 AM - 12:10 PM	ppm	-	0.05	<0.05	No Standard	0.5	Based on OSHA, PV2210	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2435165/EMAIL

S:\Reports\Air_Bangkok_2561.rpt (5/20PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-7
Sampled Date May 02, 2024
Sample Description Air Quality
Location Chilling Unit
Date Analysis Commenced May 03, 2024
Condition of Sample Drawn into one 10-L air sampling bag

Page 7 of 19

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Hydrocarbon as Propene *	10:10 AM - 12:10 PM	ppm	-	0.33	1.85	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2435165/EMAIL

S:\Reports\Air_Bangkok_2561.rpt (5/20PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 8 of 19

Sample Number : 2435165-8
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : Naptha Cracking Heater (Recycle Cracking Heater)
Date Analysis Commenced : May 03, 2024
Condition of Sample : Drawn into one 10-L air sampling bag

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Hydrocarbon as Propane *	11:00 AM - 01:00 PM	ppm	=	0.33	1.42	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7/8/23/1968

S:\Reports_Air_Working_2024\1968



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 9 of 19

Sample Number : 2435165-9
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : Truck Loading
Date Analysis Commenced : May 03, 2024
Condition of Sample : Drawn into one 10-L air sampling bag and one sorbent tube, refrigerated
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
m-Xylene *	10:30 AM - 12:30 PM	ppm	-	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
o-Xylene *	10:30 AM - 12:30 PM	ppm	-	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
p-Xylene *	10:30 AM - 12:30 PM	ppm	-	0.05	<0.05	No Standard	No Standard	Based on NIOSH (1994), 1501	Bangkok
Total Hydrocarbon as Propane *	10:30 AM - 12:30 PM	ppm	-	0.33	1.57	No Standard	No Standard	Total Hydrocarbon Analyzer	Rayong
Total Xylene	10:30 AM - 12:30 PM	ppm	-	0.05	<0.05	100	20	Based on NIOSH (1994), 1501	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan Rd., Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand - PHONE +66 0 2760 3000 - FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

LIFE SCIENCES

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7/8/23/1968

S:\Reports_Air_Working_2024\1968



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 10 of 19

Sample Number 2435165-10
Sampled Date May 02, 2024
Sample Description Air Quality
Location Benzene Tower Unit
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Benzene	10:00 AM - 12:00 PM	ppm	—	0.02	<0.02	1	0.02	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

APP-01/ENGL

S:\Report\AP_Booking_02\ref (1) 2000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 11 of 19

Sample Number 2435165-11
Sampled Date May 02, 2024
Sample Description Air Quality
Location Benzene Storage Tank
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Benzene	10:40 AM - 12:40 PM	ppm	—	0.02	<0.02	1	0.02	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)

**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

APP-01/ENGL

S:\Report\AP_Booking_02\ref (1) 2000



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 12 of 19

Sample Number 2435165-12
Sampled Date May 02, 2024
Sample Description Air Quality
Location Toluene Tower Unit
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Toluene	10:00 AM - 12:00 PM	ppm	-	0.05	<0.05	200	20	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company
This report is not reproduced into pdf is full

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

740-51/0903

S:\Report\Air_Working_2024.rpt (5.20MB)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 13 of 19

Sample Number 2435165-13
Sampled Date May 02, 2024
Sample Description Air Quality
Location Toluene Storage Tank
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Toluene	10:40 AM - 12:40 PM	ppm	-	0.05	<0.05	200	20	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company
This report is not reproduced into pdf is full

ADDRESS 104 Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

740-51/0903

S:\Report\Air_Working_2024.rpt (5.80MB)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 14 of 19

Sample Number : 2435165-14
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : Styrene Extraction unit
Date Analysis Commenced : May 04, 2024
Condition of Sample : Drawn into one 10-L air sampling bag
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Styrene *	10:10 AM - 12:10 PM	ppm	—	0.05	<0.05	100	10	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2997-S1/1948

S:\Report\Air_Working_2024-05 (1-2024)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 15 of 19

Sample Number : 2435165-15
Sampled Date : May 02, 2024
Sample Description : Air Quality
Location : Styrene Storage unit
Date Analysis Commenced : May 04, 2024
Condition of Sample : Drawn into one 10-L air sampling bag
Barometric Pressure : 757 mmHg
Atmospheric Temperature : 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Styrene *	10:45 AM - 12:45 PM	ppm	—	0.05	<0.05	100	10	In - house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2997-S1/1948

S:\Report\Air_Working_2024-05 (1-2024)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 16 of 19

Sample Number 2435165-16
Sampled Date May 02, 2024
Sample Description Air Quality
Location Low Pressure Flare
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylbenzene *	10:30 AM - 12:30 PM	ppm	—	0.05	<0.05	100	20	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as identified, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

5 (Boreen), An, Working, JCA rpt (15-2019)

7407-51/ENAB



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :



TESTING
No.0009

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Page 17 of 19

Sample Number 2435165-17
Sampled Date May 02, 2024
Sample Description Air Quality
Location Dissolved Flootation Tank
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Ethylbenzene *	11:10 AM - 01:10 PM	ppm	—	0.05	<0.05	100	20	In-house method : STM 04-032 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 1501, issue 3, 2003 (Include sampling)	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Norranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as identified, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand / PHONE +66 0 2760 3000 / FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PEOPLE

5 (Boreen), An, Working, JCA rpt (15-2019)

7407-51/ENAB



Analysis / Test Report



TESTING
No.0009

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-18
Sampled Date May 02, 2024
Sample Description Air Quality
Location Debutanizer
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
1,3-Butadiene *	10:15 AM - 12:15 PM	ppm	-	0.05	<0.05	1	2	NIOSH (1994), 1024	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2948249-1

S:\Report\LA_Working_2024.rpt (3:20PM)



Analysis / Test Report



TESTING
No.0009

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2435165
Date Received : May 02, 2024
Date Reported : May 10, 2024
Report Number : 2948249-1

Sample Number 2435165-19
Sampled Date May 02, 2024
Sample Description Air Quality
Location Raw C4 Tank
Date Analysis Commenced May 04, 2024
Condition of Sample Drawn into one 10-L air sampling bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
1,3-Butadiene *	10:35 AM - 12:35 PM	ppm	-	0.05	<0.05	1	2	NIOSH (1994), 1024	Bangkok

Guideline : 1.) Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
2.) The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (ACGIH) (2024)
**Recommended concentration ; Appendix B : Particles (insoluble or poorly soluble)

Sampled By : Noranon Tathongkham

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

2948249-1

S:\Report\LA_Working_2024.rpt (3:20PM)

ภาคผนวก ข-8

ใบรับรองผลการตรวจวัดระดับเสียงในสถานประกอบการ



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2435178
Date Received : Apr 11, 2024
Date Reported : Apr 18, 2024
Report Number: 2965051-1

Page 1 of 1

Sample Number 2435178-1
Parameter Noise (Leq 12 hrs.)
Location Steam Turbine
Measurement Date Apr 10, 2024
Measurement by Apichart Wilars

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	79.4	83.5	79.0
11:00 AM - 12:00 PM	79.6	90.8	79.0
12:00 PM - 01:00 PM	79.2	80.4	78.9
01:00 PM - 02:00 PM	79.4	84.6	78.9
02:00 PM - 03:00 PM	79.3	80.8	78.9
03:00 PM - 04:00 PM	79.5	86.2	79.0
04:00 PM - 05:00 PM	79.4	86.1	79.1
05:00 PM - 06:00 PM	79.4	85.3	79.0
06:00 PM - 07:00 PM	79.4	81.8	79.1
07:00 PM - 08:00 PM	79.4	80.3	79.1
08:00 PM - 09:00 PM	79.5	80.9	79.2
09:00 PM - 10:00 PM	79.5	80.5	79.2

Leq Average 12 hrs. (dB(A)) 79.4
Lmax (dB(A)) 90.8
Standard (dB(A)) 87
Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2435178

Date Received : Apr 11, 2024
Date Reported : Apr 18, 2024
Report Number: 2965052-1

Page 1 of 1

Sample Number 2435178-2
Parameter Noise (Leq 12 hrs.)
Location Steam Boiler
Measurement Date Apr 10, 2024
Measurement by Apichart Wilars

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	77.1	78.5	76.9
11:00 AM - 12:00 PM	77.2	78.8	76.9
12:00 PM - 01:00 PM	77.2	78.5	77.0
01:00 PM - 02:00 PM	77.3	78.7	77.0
02:00 PM - 03:00 PM	77.3	78.6	77.0
03:00 PM - 04:00 PM	77.3	78.8	77.0
04:00 PM - 05:00 PM	77.4	78.7	77.0
05:00 PM - 06:00 PM	77.7	79.1	77.2
06:00 PM - 07:00 PM	77.7	79.4	77.3
07:00 PM - 08:00 PM	77.6	79.1	77.2
08:00 PM - 09:00 PM	77.5	78.8	77.2
09:00 PM - 10:00 PM	77.4	78.8	77.0
Leq Average 12 hrs. (dB(A))	77.4		
Lmax (dB(A))		79.4	
Standard (dB(A))	87	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Noise rpt (1:35PM)



Analysis / Test Report

Client : Map Ta Phut Olefins Co., Ltd.
88/3, 3191 Road, T. Map Ta Phut, A. Maung, Rayong Thailand 21150
P/O : PMM-23-21
Project Name : Environmental Monitoring
Project Location :

Lot ID: 2435178

Date Received : Apr 11, 2024
Date Reported : Apr 18, 2024
Report Number: 2965053-1

Page 1 of 1

Sample Number 2435178-3
Parameter Noise (Leq 12 hrs.)
Location Agitator ของ Neutralization tank
Measurement Date Apr 10, 2024
Measurement by Apichart Wilars

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	72.2	84.0	71.8
11:00 AM - 12:00 PM	72.5	89.4	71.3
12:00 PM - 01:00 PM	72.1	79.1	71.5
01:00 PM - 02:00 PM	72.1	79.5	71.5
02:00 PM - 03:00 PM	72.5	80.4	72.1
03:00 PM - 04:00 PM	72.8	81.3	71.8
04:00 PM - 05:00 PM	72.8	80.1	72.4
05:00 PM - 06:00 PM	72.3	78.8	71.6
06:00 PM - 07:00 PM	72.0	73.4	71.7
07:00 PM - 08:00 PM	71.9	72.8	71.6
08:00 PM - 09:00 PM	72.0	73.0	71.8
09:00 PM - 10:00 PM	71.9	73.0	71.7

Leq Average 12 hrs. (dB(A))

72.3

Lmax (dB(A))

89.4

Standard (dB(A))

87

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

7497-51/ EMAIL

S:\Reports\Air Noise.rpt (1:35PM)